

I. CATALOG INFORMATION

A. Discipline: ANATOMY

B. Subject Code and Number: ANAT M01

C. Course Title: Human Anatomy

D. Credit Course units:

Units: 4

Lecture Hours per week: 2

Lab Hours per week : 6

Variable Units : No

E. Student Learning Hours:

Lecture Hours:

Classroom hours: 35 - 35

Laboratory/Activity Hours:

Laboratory/Activity Hours 105 - 105

Total Combined Hours in a 17.5 week term: 140 - 140

F. Non-Credit Course hours per week _____

G. May be taken a total of: ☒ 1 ☐ 2 ☐ 3 ☐ 4 time(s) for credit

H. Is the course co-designated (same as) another course: No ☒ Yes ☐

If YES, designate course Subject Code & Number: _____

I. 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.

J. Entrance Skills

*Prerequisite: No ☒ Yes ☐ Course(s)

*Corequisite: No ☒ Yes ☐ Course(s)

Limitation on Enrollment: No ☒ Yes ☐

Recommended Preparation: No ☐ Yes ☒ Course(s)

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

Other: No ☒ Yes ☐

K. Other Catalog Information:

Course Credit Limitation:
UC - ANAT M01 and ANPH M01 combined: maximum credit one course.

II. COURSE OBJECTIVES

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

		Methods of evaluation will be consistent with, but not limited by, the following types or examples.
1	use anatomical terminology appropriately to describe position, structure and function of anatomical systems.	Written lecture exams Practical exams Quizzes Short essay papers Class participation
2	identify the major mammalian organs and organ systems, their structural parts and features.	Written lecture exams Practical exams Identifying structures in anatomical models, images, and in human cadavers as well as on non-human mammalian specimens Identification of organ tissues on prepared slides
3	relate the structure of cells and tissues to the structure and function of organs and organ systems.	Written lecture exams Practical exams Quizzes Short essay papers Class participation Identification of organ tissues on prepared slides
4	classify anatomical parts of an organ or organ system according to structure and function.	Written lecture exams Practical exams
5	describe the organization of the organ systems.	Written lecture exams Practical exams Quizzes
6	describe the relationship of the different anatomical parts to each other and to the whole organism.	Written lecture exams Practical exams Quizzes Short essay papers

7	describe how anatomical features change over the lifespan of an individual.	Written lecture exams Practical exams Quizzes Short essay papers Class participation Identifying structures on anatomical models, on images, and in human cadavers as well as on non-human mammalian specimens Identification of organ tissues on prepared slides
8	distinguish healthy from diseased or abnormal tissue both macroscopically and microscopically.	Practical exams, including use of human cadavers, non-human mammalian specimens and organ tissues on prepared slides
9	identify different tissue types histologically.	Practical exams using organ tissues on prepared slides
10	identify anatomical features in a dissected mammal and a human cadaver.	Practical exams using human cadavers and non-human mammalian specimens
11	demonstrate appropriate dissection techniques.	Practical exams Demonstration on non-human mammalian specimens

III. COURSE CONTENT

Estimated %	Topic	Learning Outcomes
Lecture (must total 100%)		
4.00%	Anatomical terminology	1
4.00%	Basic histology	9
6.00%	Integumentary system	1, 4, 5, 10
12.00%	Skeletal system Joints	1, 2, 3, 4, 5, 6, 7, 8, 10
4.00%	Lymphatic system	1, 2, 3, 4, 5, 6, 7, 8,

		10, 11
6.00%	Digestive system	1, 2, 3, 4, 5, 6, 7, 8, 10, 11
6.00%	Urinary system	1, 2, 3, 4, 5, 6, 7, 8, 10, 11
6.00%	Reproductive system	1, 2, 3, 4, 5, 6, 7, 8, 10, 11
10.00%	Nervous system	1, 2, 3, 4, 5, 6, 7, 8, 10, 11
12.00%	Muscular system	1, 2, 3, 4, 5, 7, 8, 10, 11
12.00%	Cardiovascular system Blood composition	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11
5.00%	Respiratory system	1, 2, 3, 4, 5, 6, 7, 8, 10, 11
8.00%	Sensory systems	1, 2, 3, 4, 5, 6, 7, 8, 10, 11
5.00%	Endocrine system	1, 2, 3, 4, 5, 6, 7, 8, 10, 11
Lab (must total 100%)		
4.00%	The human body: an orientation	1, 2, 7, 8, 10
6.00%	Histology: basic tissues of the body	1, 9
6.00%	Integumentary system and body membranes	1, 2, 5, 6, 7, 8, 10, 11
15.00%	Skeletal systems and joints	1, 2, 5, 6, 7, 8, 10, 11
15.00%	The muscular system	1, 2, 5, 6, 8, 10, 11
12.00%	The circulatory system: blood, heart, and blood vessels	1, 2, 5, 6, 7, 8, 10, 11
4.00%	The lymphatic system	1, 2, 5, 6, 7, 8, 10, 11
5.00%	The respiratory system	1, 2, 5, 6, 7, 8, 10, 11

6.00%	The digestive system	1, 2, 5, 6, 7, 8, 10, 11
6.00%	The urinary system	1, 2, 5, 6, 7, 8, 10, 11
6.00%	The reproductive system	1, 2, 5, 6, 7, 8, 10, 11
10.00%	The nervous system	1, 2, 5, 6, 7, 8, 10, 11
5.00%	The endocrine system	1, 2, 5, 6, 7, 8, 10, 11

IV. TYPICAL ASSIGNMENTS

A. Writing assignments

Writing assignments are required. Possible assignments may include, but are not limited to:	
1	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.
2	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.
3	write an evaluation of information from on-site laboratory activities or computer lab simulations.
4	write a report describing the steps a surgeon will follow during a colectomy of the proximal third of the transverse colon.

B. Appropriate outside assignments

Appropriate outside assignments are required. Possible assignments may include, but are not limited to:	
1	memorize definitions of the following heart anatomy-related clinical terms: mitral stenosis, aortic insufficiency, and pericarditis.
2	research using appropriate scientific literature from libraries and the Internet.
3	survey popular press for articles relating to anatomy.
4	participate in cooperative group work addressing dissections.
5	review the name and the purpose of surgical procedures that are used to correct digestive system conditions, appendectomy and colectomy.
6	review and memorize specific organs found in each abdominal region.

C. Critical thinking assignments

Critical thinking assignments are required. Possible assignments may include, but are not limited to:	
1	research a case study of disease involving anatomical structure.
2	analyze and compare various joints.
3	compare and discuss the human skeleton vs. great ape skeleton.
	compare the fetal pig to the adult human and list 10 anatomical differences, explaining

4	how these differences relate to differences between adult and fetus and between species.
5	identify organs and structures on medical images such as X-rays, MRIs, or CT scans.
6	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.

V. METHODS OF INSTRUCTION

Methods of instruction may include, but are not limited to:

- ☐ Distance Education – When any portion of class contact hours is replaced by distance education delivery mode (Complete DE Addendum, Section XV)
- ☒ Lecture/Discussion
- ☒ Laboratory/Activity
- ☒ Other (Specify)

Group projects
Computer-assisted instruction
Audio visual (all videos and DVDs must be closed captioned)
Seminar
Guest speaker
Museum exhibits
- ☒ Optional Field Trips
- ☐ Required Field Trips

VI. METHODS OF EVALUATION

Methods of evaluation may include, but are not limited to:

- ☒ Essay Exam
- ☒ Classroom Discussion
- ☒ Skill Demonstration
- ☒ Problem Solving Exam
- ☒ Reports/Papers/Journals
- ☒ Participation
- ☒ Objective Exams
- ☒ Projects
- ☒ Other (specify)

Fetal pig dissection techniques

VII. REPRESENTATIVE TEXTS AND OTHER COURSE MATERIALS

Marieb, Elaine, et al. Human Anatomy. 8th ed. Pearson, 2017.

Shargo, Eric. Laboratory Manual for Anatomy 1 - Fetal Pig. 5th ed. Sunshine , 2017.

Amerman, Erin. Exploring Anatomy in the Laboratory. Morton, 2016.

Krieger, Paul. A Visual Guide to Human Anatomy. 4th ed. Morton, 2017.

VIII. STUDENT MATERIALS FEES

- ☒ No
- ☐ Yes

IX. PARALLEL COURSES

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

X. MINIMUM QUALIFICATIONS

Courses Requiring a Masters Degree: master's degree in any biological science OR bachelor's degree in any biological science AND master's degree in biochemistry, biophysics, or marine science OR the equivalent.
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XI. ARTICULATION INFORMATION

- A. Title V Course Classification:

1. This course is designed to be taken either:

☐ Pass/No Pass only (no letter grade possible); or☒ Letter grade (P/NP possible at student option)

2. Degree status:

Either ☒ Associate Degree Applicable; or ☐ Non-associate Degree Applicable
- B. Moorpark College General Education:

1. Do you recommend this course for inclusion on the Associate Degree General Education list?

Yes: ☒ No: ☐ If YES, what section(s)?

☒ A1 - Natural Sciences - Biological Science☐ A2 - Natural Sciences - Physical Science☐ B1 - Social and Behavioral Sciences - American History/Institutions☐ B2 - Social and Behavioral Sciences - Other Social Behavioral Science☐ C1 - Humanities - Fine or Performing Arts☐ C2 - Humanities - Other Humanities☐ D1 - Language and Rationality - English Composition☐ D2 - Language and Rationality - Communication and Analytical Thinking☐ E1 - Health/Physical Education☐ E2 - PE or Dance☐ F - Ethnic/Gender Studies
- C. California State University(CSU) Articulation:

1. Do you recommend this course for transfer credit to CSU? Yes: ☒ No: ☐

2. If YES do you recommend this course for inclusion on the CSU General

Education list?

Yes: ☒ No: ☐ If YES, which area(s)?

A1 <input type="checkbox"/>	A2 <input type="checkbox"/>	A3 <input type="checkbox"/>	B1 <input type="checkbox"/>	B2 <input checked="" type="checkbox"/>	B3 <input checked="" type="checkbox"/>	B4 <input type="checkbox"/>
C1 <input type="checkbox"/>	C2 <input type="checkbox"/>	D1 <input type="checkbox"/>	D2 <input type="checkbox"/>	D3 <input type="checkbox"/>	D4 <input type="checkbox"/>	D5 <input type="checkbox"/>
D6 <input type="checkbox"/>	D7 <input type="checkbox"/>	D8 <input type="checkbox"/>	D9 <input type="checkbox"/>	D10 <input type="checkbox"/>	E <input type="checkbox"/>	

D. University of California (UC) Articulation:

1. Do you recommend this course for transfer to the UC? Yes: ☒ No: ☐
2. If YES do you recommend this course for the Intersegmental General Education Transfer Curriculum (IGETC)? Yes: ☒ No: ☐

IGETC Area 1: English Communication

- ☐ English Composition
- ☐ Critical Thinking-English Composition
- ☐ Oral Communication

IGETC Area 2: Mathematical Concepts and Quantitative Reasoning

- ☐ Mathematical Concepts

IGETC Area 3: Arts and Humanities

- ☐ Arts
- ☐ Humanities

IGETC Area 4: Social and Behavioral Sciences

- ☐ Anthropology and Archaeology
- ☐ Economics
- ☐ Ethnic Studies
- ☐ Gender Studies
- ☐ Geography
- ☐ History
- ☐ Interdisciplinary, Social & Behavioral Sciences
- ☐ Political Science, Government & Legal Institutions
- ☐ Psychology
- ☐ Sociology & Criminology

IGETC Area 5: Physical and Biological Sciences (mark all that apply)

- ☐ Physical Science Lab or Physical Science Lab only (non-sequence)
- ☐ Physical Science Lecture only (non-sequence)
- ☒ Biological Science
- ☐ Physical Science Courses

- ☐ Physical Science Lab or Biological Science Lab Only (non-sequence)
- ☐ Biological Science Courses
- ☐ Biological Science Lab course
- ☐ First Science course in a Special sequence
- ☐ Second Science course in a Special Sequence
- ☒ Laboratory Activity
- ☐ Physical Sciences

IGETC Area 6: Language other than English

- ☐ Languages other than English (UC Requirement Only)
- ☐ U.S. History, Constitution, and American Ideals (CSU Requirement ONLY)
- ☐ U.S. History, Constitution, and American Ideals (CSU Requirement ONLY)

XII. REVIEW OF LIBRARY RESOURCES

- A. What planned assignment(s) will require library resources and use?

The following assignments require 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.

- B. Are the currently held library resources sufficient to support the course assignment?

YES: ☒ NO: ☐

If NO, please list additional library resources needed to support this course.

XIII. PREREQUISITE AND/OR COREQUISITE JUSTIFICATION

ANAT M01: Not Applicable

XIV. WORKPLACE PREPARATION

ANAT M01: Not Applicable

XV. DISTANCE LEARNING COURSE OUTLINE ADDENDUM

ANAT M01: Not Applicable

XVI. GENERAL EDUCATION COURSE OUTLINE ADDENDUM

General Education Division of Learning [check all applicable boxes]:

- ☒ Natural Sciences
 - ☒ Biological Science
 - ☐ Physical Science
- ☐ Social and Behavioral Sciences
 - ☐ American History/Institutions

- ☐ Other Social Science
- ☐ Humanities
 - ☐ Fine or Performing Arts
 - ☐ Other Humanities
- ☐ Language and Rationality
 - ☐ English Composition
 - ☐ Communication and Analytical Thinking
- ☐ Health/Physical Education
- ☐ Ethnic/Women's Studies

Check either Option 1 or Option 2

- ☒ **OPTION #1:** Moorpark College has already received approval from the CSU and/or UC systems for this course to fulfill a GE requirement. Note: This option applies only to technical revisions and updated courses.
- ☐ **OPTION #2:** Moorpark College has not received approval from the CSU and/or UC systems for this course to fulfill a GE requirement. This option applies to all new and substantively revised courses.

XVII. STUDENT MATERIALS FEE ADDENDUM

ANAT M01: Not Applicable

XVIII. REPEATABILITY JUSTIFICATION TITLE 5, SECTION 55041

ANAT M01: Not Applicable

XIX. CURRICULUM APPROVAL

Course Information:

Discipline: ANATOMY

Discipline Code and Number: ANAT M01

Course Revision Category: Outline Update

Course Proposed By:

Originating Faculty Beth Miller 09/01/2018

Faculty Peer: Melia Tabbakhian 09/02/2018

Curriculum Rep: Beth Miller 09/08/2018

Department Chair: Jazmir Hernandez 09/06/2018

Division Dean: Carol Higashida 09/10/2018

Approved By:

Curriculum Chair: Jerry Mansfield 02/08/2019

Executive Vice President: _____

Articulation Officer: Letrisha Mai 01/17/2019

Librarian: Mary LaBarge 01/14/2019

Implementation Term and Year: Fall 2019

Approval Dates:

Approved by Moorpark College Curriculum Committee: 02/05/2019

Approved by Board of Trustees (if applicable): _____

Approved by State (if applicable): 02/25/2019