I.

A.	Discipline: ANATOMY AND PHYSIOLOGY
В.	Subject Code and Number: ANPH M01
C.	Course Title: Human Anatomy & Physiology
D.	Credit Course units: Units: 6 Lecture Hours per week: 4 Lab Hours per week: 6 Variable Units: No
E.	Student Learning Hours: Lecture Hours: Classroom hours: 70 - 70 Laboratory/Activity Hours: Laboratory/Activity Hours 105 - 105 Total Combined Hours in a 17.5 week term: 175 - 175
F.	Non-Credit Course hours per week
G.	May be taken a total of: X 1 2 3 4 time(s) for credit
H.	Is the course co-designated (same as) another course: No X Yes If YES, designate course Subject Code & Number:
I.	Course Description:
	Introduces the structures and the relationships of human body parts. Explores how the functioning of human body parts are related to their structures. Combines the study of anatomy and physiology which allows students to effectively integrate the study of structure with functioning of the system. Utilizes themes of hierarchical structural organization and the maintenance of homeostasis to form the framework for the study of the human system at both macroscopic and microscopic levels. Examines the structure/function relationship through the required dissection of a fetal pig in the laboratory portion. Utilizes a human cadaver to demonstrate the principles of the anatomy of the human body.
J.	Entrance Skills
	*Prerequisite: No X Yes Course(s)
	*Corequisite: No X Yes Course(s)
	Limitation on Enrollment: No X Yes

Recommended P	reparation:	No	Yes	X	Course(s)
BIOL M02A or I	BIOL M02A	H or C	HEM	M1	<u>1</u>
Other:		No X	Yes		

K. Other Catalog Information:

Course Credit Limitation:

- 1. MC, CSU and UC ANPH M01 and ANAT M01 combined: maximum credit, one course
- 2. MC, CSU and UC ANPH M01 and PHSO M01 or PHSO M01H 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.
use appropriate anatomical terminology to describe systems, parts, and positions.	Quizzes Written exams Homework
relate the structure of the human body to the functioning of the system and classify system parts structurally and functionally.	Quizzes Written exams Homework Identification of structures on anatomical models Identification of structures on a human cadaver and/or dissected fetal pig Physiology laboratory simulations Physiology experiments Lab practical exams
describe how body systems maintain homeostasis in the organism and predict how the system responds to an imbalance to restore homeostasis.	Quizzes Written exams Homework Physiology laboratory simulations Physiology experiments Lab practical exams
describe chemical principles and structures that form the basis of cellular metabolism.	Quizzes Written exams Homework
	relate the structure of the human body to the functioning of the system and classify system parts structurally and functionally. describe how body systems maintain homeostasis in the organism and predict how the system responds to an imbalance to restore homeostasis. describe chemical principles and structures that form the basis of

5	describe and distinguish roles/functions of the major classes of biomolecules in living cells.	Quizzes Written exams Homework Physiology lab simulations
6	describe cell structure and function and how cells communicate with one another.	Quizzes Written exams Homework Physiology laboratory simulations
7	identify the tissues that comprise the organs of the human body.	Quizzes Written exams Homework Identification of organ tissues on prepared slides Lab practical exams
8	describe the major organ systems at the cellular, tissue, and organ level.	Quizzes Written exams Homework Identification of structures on anatomical models Identification of structures on a human cadaver and/or dissected fetal pig Identification of organ tissues on prepared slides Physiology laboratory simulations Physiology experiments Lab practical exams
9	identify the structural parts of each organ system and relate structure to the functioning of the system.	Quizzes Written exams Homework Identification of structures on anatomical models Identification of structures on a human cadaver and/or dissected fetal pig Physiology laboratory simulations Physiology experiments Lab practical exams
10	describe how human systems change over the lifespan of the individual and due to disease.	Quizzes Written exams Homework Physiology laboratory lab simulations Physiology experiments

		Written and oral reports about human diseases
11	describe the relationship between the organ systems and their integration to form a coordinated, functional, whole organism.	Quizzes Written exams Homework Viewing of human cadaver and/or dissected fetal pig Physiology laboratory simulations Physiology experiments Lab practical exams
12	analyze clinical symptoms and relate them to the physiological malfunction.	Quizzes Written exams Homework Physiology laboratory simulations
13	examine histological preparations to identify structural features of different human cells and tissue types.	Identification of human cells and organ tissues on prepared slides
14	demonstrate appropriate dissection techniques and identify anatomical structures in a dissected specimen.	Dissection of a fetal pig and other non-human mammalian specimens
15	demonstrate an understanding of the scientific method, and analyze physiological experiments/data.	Quizzes Written exams Homework

III. COURSE CONTENT

Estimated %	Topic	Learning Outcomes
Lecture (must tot	al 100%)	
4.00%	Introduction to homeostasis and anatomical terminology	1, 2, 3
4.00%	Histology	7, 13
5.00%	Integumentary system	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14
6.00%	Skeletal system	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15

6.00%	Muscular system	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15
6.00%	Endocrine system	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15
7.00%	Lymphatic system Immunity	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15
6.00%	Respiratory system	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15
6.00%	Digestive system	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15
6.00%	Metabolism Nutrition Energy regulation	3, 4, 5, 6, 12
6.00%	Reproductive system Development	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14
5.00%	Biochemistry	5, 6
7.00%	Cell structure and function Membrane structure and function Metabolism Growth and reproduction	5, 6
7.00%	Nervous system Sensory system	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15
8.00%	Urinary system Balance of fluids, electrolytes, and pH	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15
8.00%	Cardiovascular system	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15
3.00%	Scientific method and interpretation of physiological experiments/data	15

Lab (must to	tal 100%)	
5.00%	Laboratory safety and rules/regulations for human cadaver usage and fetal pig dissection	14
6.00%	Brightfield microscopy	7, 13
15.00%	Histology	13
5.00%	Integumentary system	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14
7.00%	Skeletal system	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15
7.00%	Muscular system	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15
7.00%	Nervous system	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15
7.00%	Sensory system	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15
6.00%	Endocrine system	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15
7.00%	Respiratory system	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15
7.00%	Digestive system	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15
7.00%	Urinary system	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15
7.00%	Reproductive system	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14,

		15
7.00%	Cardiovascular system	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15

IV. TYPICAL ASSIGNMENTS

A. Writing assignments

Writing assignments are required. Possible assignments may include, but are not limited to:		
1	written analyses of case studies.	
2	completed lab reports.	
3	written evaluation of data generated from physiology laboratory experiments and/or simulations.	

B. Appropriate outside assignments

Appropriate outside assignments are required. Possible assignments may include, but are not limited to:		
1	research using appropriate anatomical/physiological literature from the library and the Internet on such topics as the function of blood pressure and the effect of elevated levels on the cardiovascular system.	
2	survey popular press for articles relating to physiology/anatomy.	

C. Critical thinking assignments

	Critical thinking assignments are required. Possible assignments may include, but are not limited to:		
1	interpret and analyze data generated from physiology laboratory experiments and/or simulations.		
2	compare and contrast fetal pig vs. adult human anatomy.		
3	evaluate relationship of structure vs. function in the studies of organ systems.		

V. METHODS OF INSTRUCTION

Optional Field Trips

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)				
X	Lecture/Discussion				
X	Laboratory/Activity				
X	Other (Specify) Onsite dissection of fetal pig and other mammalian organs Use of human cadaver for observation and learning Use of prepared slides of organ and tissue specimens Use of physiology laboratory simulations				

Use of physiology equipment such as stethoscopes

file:///E/Courses/ANPH%20M01%205468%20(Outline%20Update,%20Fall%202014).htm[4/23/2019 9:48:10 AM]

X Letter grade (P/NP possible at student option)

	 Degree status: Either X 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: X No: If YES, what section(s)?
	X 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:
	 Do you recommend this course for transfer credit to CSU? Yes: X No: If YES do you recommend this course for inclusion on the CSU General Education list?
	Yes: X No: If YES, which area(s)?
	A1
	C1
	D6
D.	University of California (UC) Articulation:
	1. Do you recommend this course for transfer to the UC? Yes: X No:
	2. If YES do you recommend this course for the Intersegmental General Education Transfer Curriculum (IGETC)? Yes: X No:
	IGETC Area 1: English Communication
	English CompositionCritical Thinking-English CompositionOral 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 (none-sequence)				
Physical Science Lecture only (non-sequence)				
X 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				
X 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 anatomical and/or

		physiological changes of organ systems, such as the digestive system, during disease pathogenesis.
	B.	Are the currently held library resources sufficient to support the course assignment?
		YES: X NO:
		If NO, please list additional library resources needed to support this course.
XIII.	PRER	EQUISITE AND/OR COREQUISITE JUSTIFICATION
	ANPH	M01: Not Applicable
XIV.	WORK	PLACE PREPARATION
	ANPH	M01: Not Applicable
XV.	DISTA	NCE LEARNING COURSE OUTLINE ADDENDUM
	ANPH	M01: Not Applicable
XVI.	GENE	RAL EDUCATION COURSE OUTLINE ADDENDUM
	Genera	al Education Division of Learning [check all applicable boxes]:
		X Natural Sciences
		X 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.

STUDENT MATERIALS FEE ADDENDUM XVII. ANPH M01: Not Applicable XVIII. REPEATABILITY JUSTIFICATION TITLE 5, SECTION 55041 ANPH M01: Not Applicable XIX. **CURRICULUM APPROVAL** Course Information: Discipline: ANATOMY AND PHYSIOLOGY Discipline Code and Number: ANPH M01 Course Revision Category: Outline Update Course Proposed By: Originating Faculty Beth Miller 08/31/2018 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 2014 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