

9/13/2022 DATE

REQUIRED COURSE
 ELECTIVE COURSE

MSD DIVISION
 NEW COURSE
 REVISION

Lake Land College

Course Information Form

COURSE NUMBER: BIO-050		TITLE: (30 Characters Max) Basic Anatomy & Physiology			
SEM CR HRS: 4	Lecture: 4	Lab: 0	ECH: 4		
Course Level:	<input type="checkbox"/> Gen Ed / IAI <input type="checkbox"/> Baccalaureate /Non-IAI	<input checked="" type="checkbox"/> Career/Technical <input type="checkbox"/> Dev Ed/ Not in Degree Audit	Clinical Practicum: 0	Work-based Learning: 0	WBL ECH: 0
COURSE PCS #	12 - 51.3501	IAI Code	Contact Hours (Minutes Per Week)		
Repeatable (Y/N): N	Pass/Fail (Y/N): N	Variable Credit (Y/N): N	Min:	Max:	16 Wks: 200, 8 Wks: 400
Prerequisites:	None				
Corequisites:	None				
Catalog Description: (40 Word Limit)	This course provides an understanding of anatomical structures and functions of the human body.				

List the Major Course Segments (Units)	Contact Lecture Hours	Contact Lab Hours	Clinical Practicum	Work-based Learning
Anatomical Terminology	4			
Cell Biology	4			
Histology/Integument	4			
Senses	4			
Nervous System	4			
Endocrine System	4			
Cardiovascular System	4			
Musculoskeletal System	8			
Respiratory System	4			
Urinary System	4			
Lymphatic/Immunity	4			
Reproduction/Development	4			
Digestion	4			
Medical Terminology	4			
TOTAL	60	0	0	0

EVALUATION			
QUIZZES <input checked="" type="checkbox"/>	EXAMS <input type="checkbox"/>	ORAL PRES <input type="checkbox"/>	PAPERS <input checked="" type="checkbox"/>
LAB WORK <input type="checkbox"/>	PROJECTS <input checked="" type="checkbox"/>	COMP FINAL <input type="checkbox"/>	OTHER <input type="checkbox"/>

COURSE MATERIALS	
TITLE:	Essentials of Anatomy & Physiology
AUTHOR:	Martini/Bartholomew
PUBLISHER:	Pearson Education Inc
VOLUME/EDITION/URL:	6th
COPYRIGHT DATE:	2013

MAJOR COURSE SEGMENT	HOURS	LEARNING OUTCOMES
		<i>The student will be able to:</i>
Anatomy Terms	4	Introduce the basic layout of the human body terms of relative position, body movement, and regions of the body
Cell Biology	4	Introduce the basic layout of the generalized cell including the cell membrane, nucleus, and cytoplasmic organelles. Discuss the role of genes in cell function. Mechanism of cell secretion. Terminology
Histology	3	Introduce the four basic tissue types of the human body. Discuss functional and morphological differences between tissue types. Terminology

Integument	1	Discuss basic structure and function of human skin.
Senses	4	Discuss the general senses and their receptors in the skin. Discuss the special senses. Terminology
Nervous System	4	Discuss the anatomical structures and general organization of the nervous system. Discuss neurological disorders. Terminology
Endocrine System	4	Discuss the basic mechanism for hormone action. Discuss the actions of major hormones. Terminology
Cardiovascular System	4	Discuss heart function and the cardiac cycle. Circulation, blood pressure, nutrient delivery. Terminology
Musculoskeletal System	8	206 bones of the adult human. Major muscle groups of the back, upper quadrant, lower quadrant, and torso. Dynamic nature of bone.
Respiratory System	4	Mechanics and control of ventilation. Oxygen transport. Terminology
Urinary System	4	Filtration, Reabsorption, Secretion by kidney nephron. Hormonal control of the kidneys. Terminology
Lymphatic/Immunity	4	Major defense systems of the body. Nonspecific and specific defenses. Role of the lymphatic system. Terminology
Reproduction/Development	4	Anatomy of the reproductive system. Functions of male and female reproductive structures. Hormonal influence. Terminology
Digestion	4	Anatomy of the digestive system. Breakdown of carbohydrates, proteins, and triglycerides. Terminology
Medical Terminology	4	A summary and wrap-up of all the terminology discussed during the first 15 weeks of the semester.

60

COURSE OUTCOMES*

At the successful completion of this course, students will be able to:

- Students will display an understanding of homeostasis as it applies to the 11 organ systems of the body.
- Students will display an understanding of gross anatomy and physiology of the 11 organ systems of the body.
- Students will display an understanding of health related vocabulary terms.
- Students will display a general understanding of cell and tissue biology.

* Course Outcomes will be used in the Assessment Software for Outcomes Assessment. Limit to 3 - 5.