

HS 062: YOUR LIVING BODY

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Originator

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Justification / Rationale

Updates to COR to meet Title 5 language for Intensity and Difficulty. Improve justification of these areas by adding additional information regarding assignments.

Effective Term

Spring 2020

Credit Status

Credit - Degree Applicable

Subject

HS - Health Sciences

Course Number

062

Full Course Title

Your Living Body

Short Title

YOUR LIVING BODY

Discipline**Disciplines List**

Health

Modality

Face-to-Face

Catalog Description

This course provides a basic overview of body structures and functions, correlated with discussion of the major diseases affecting each of the major systems. This course is required for Vocational Nursing Program.

Schedule Description

This course provides a basic knowledge and overview of body structures and its functions, correlated with discussion of the major diseases affecting each of the major systems. Advisory: HS 061 & ENG 061

Lecture Units

3

Lecture Semester Hours

54

Lab Units

0

In-class Hours

54

Out-of-class Hours

108

Total Course Units

3

Total Semester Hours

162

Prerequisite Course(s)

Advisory: HS 061 & ENG 061

Required Text and Other Instructional Materials**Resource Type**

Book

Author

Colbert, B; Ankley, J; Lee, K

Title

Anatomy and Physiology and Disease

Edition

2nd

Publisher

Prentice-Hall

Year

2012

College Level

No

Flesch-Kincaid Level

12

Class Size Maximum

36

Entrance Skills

Define, spell and pronounce medical terms

Requisite Course Objectives

HS 061-Define, spell and pronounce medical terms

Entrance Skills

Use medical terminology within the context of the human body systems and basic physiological functions.

Requisite Course Objectives

HS 061-Use medical terminology within the context of the human body systems and basic physiological functions.

Entrance Skills

Identify medical abbreviations used by various services in a health-care facility.

Requisite Course ObjectivesHS 061-Identify medical abbreviations used by various services in a health-care facility.

Entrance Skills

Pronounce words that pertain to each specific body system.

Requisite Course Objectives

HS 061-Pronounce words that pertain to each specific body system.

Entrance Skills

Use a medical dictionary.

Requisite Course Objectives

HS 061-Use a medical dictionary.

Entrance Skills

Demonstrate the ability to apply standard rules of grammar, punctuation and spelling in academic writing

Requisite Course Objectives

ENG 061-Recognize features of style such as purpose, audience and tone integrate these elements into academic and professional writing.

Entrance Skills

Read, comprehend, and summarize 8th grade level readings and identify main ideas and supporting details.

Requisite Course Objectives

ENG 061-Demonstrate the ability to read and respond in writing beyond the literal interpretation of the text.

Entrance Skills

Recognize and explain patterns of idea development in short readings and academic writing.

Requisite Course Objectives

ENG 061-Use theses to organize paragraphs into coherent analyses.

ENG 061-Demonstrate the ability to think critically and express ideas using various patterns of development.

ENG 061-Recognize features of style such as purpose, audience and tone integrate these elements into academic and professional writing.

ENG 061-Demonstrate the ability to read and respond in writing beyond the literal interpretation of the text.

Course Content

1. Introduction to the Human Body
 - a. Levels of organization, life processes and homeostasis
 - b. Anatomical Terms
 - c. Negative and Positive Feedback
 - d. Organ Systems
2. Chemistry, Matter and Life
 - a. Compounds and Molecules
 - b. Chemical reactions, equations, types and rates
 - c. Mixtures, solutions and suspensions
3. Cell structure and functions
 - a. Cell membrane, cytoplasm and nucleus
 - b. Movement of substances across the cell
 - c. Cell division
4. Tissues, membranes, glands, and skin
 - a. Body tissue: epithelial, connective, muscle and nervous tissue
 - b. Body membranes: mucous, serous, synovial and
 - c. meninges
 - d. Structure of the skin
 - e. Functions of the skin, common diseases affecting the skin, hair, nails and glands

5. The Skeletal System
 - a. Overview of the skeletal system, axial, appendicular and articulations
 - b. Functions of the skeletal system
6. The Muscular System
 - a. Characteristics and functions of the muscular system
 - b. Structure of the skeletal muscle, contractions and groups, smooth and cardiac muscle groups
 - iii. Common diseases affecting the muscular system
7. The Nervous System
 - a. Functions of the Nervous system
 - b. Organization of the nervous system and nerve impulses
 - c. Common diseases affecting the nervous system
8. The Sensory System
 - a. General senses: Touch, pressure, temperature, pain, proprioception
 - b. Specific senses: Taste, smell, vision, hearing
9. The Endocrine System
 - a. Introduction to the endocrine system - endocrine and exocrine glands
 - b. Characteristics of Hormones - Chemical nature, mechanism and control
 - c. Common diseases affecting the endocrine system
10. Blood
 - a. Functions and characteristics of blood
 - b. Composition of blood and homeostasis
 - c. Blood typing and transfusions
 - d. Common diseases affecting the hemopoietic system
11. Overview of the Heart
 - a. Structure of the heart
 - b. Function of the heart
 - c. Common diseases affecting the heart
 - d. Blood vessels and circulation
 - e. Classification and structure of blood vessels
 - f. Physiology of circulation
 - g. Circulatory pathways
12. Lymphatic System and Body Defenses
 - a. Functions of the lymphatic system
 - b. Components of the lymphatic system
 - c. Resistance to disease and loss of that function.
13. Respiratory System
 - a. Functions and overview of respiration
 - b. Basic gas laws and respiration
 - c. Regulation of respiration
 - d. Common diseases affecting the respiratory system
14. Digestive System, Metabolism and Nutrition
 - a. Functions of the digestive system
 - b. General structure of the digestive tract and accessory organs
 - c. Common diseases affecting the digestive system
 - d. Metabolism of absorbed nutrients
 - e. Basic elements of nutrition
 - f. Body temperature and temperature regulation
15. Urinary System and Body Fluids
 - a. Functions of the urinary system
 - b. Components of the urinary system
 - c. Common diseases affecting the urinary system
16. Reproductive System, Development and Heredity
 - a. Male reproductive system
 - b. Female reproductive system
 - c. Common diseases affecting the reproductive system
 - d. Fertilization
 - e. Embryonic development

- f. Fetal development
- g. Postnatal development

Course Objectives

Objectives	
Objective 1	Identify the major body systems.
Objective 2	Explain the basic structure of each of the major body systems.
Objective 3	Explain the basic function of each of the major body systems.
Objective 4	List the most common disease conditions affecting each of the major body systems.
Objective 5	Identify the cause(s) of the most common disease condition.
Objective 6	Identify the basics of human biochemistry as pertains to the function of cells and body systems
Objective 7	Draw and label parts of the human body from all systems.

Student Learning Outcomes

Upon satisfactory completion of this course, students will be able to:	
Outcome 1	Explain the structural anatomy of biological molecules, cells, tissues, organs, and systems.
Outcome 2	Evaluate the relationship between normal anatomy and physiological functioning in a healthy human body.
Outcome 3	Describe the impact of common human diseases on essential body systems.

Methods of Instruction

Method	Please provide a description or examples of how each instructional method will be used in this course.
Activity	Group work labeling anatomical structures for body systems
Lecture	PowerPoint presentations covering chapters of the textbook
Collaborative/Team	Word share activity where students learn key vocabulary in a small group of 3-4 students
Activity	In class demonstrations such as protein folding and disease risk-factor roulette

Methods of Evaluation

Method	Please provide a description or examples of how each evaluation method will be used in this course.	Type of Assignment
Tests/Quizzes/Examinations	Quizzes given after each chapter on terminology covered in the group word share activities	In Class Only
Presentations/student demonstration observations	Disease presentation. Student prepares a 10-slide presentation on a disease that covers etiology, epidemiology, treatment, prevention, etc. for a disease or illness.	In and Out of Class
Mid-term and final evaluations	Mid-semester and final examinations - includes specific disease processes, essays, labeling parts of human anatomy drawings, analyzing disease processes	In Class Only
Tests/Quizzes/Examinations	Weekly homework quizzes completed online.	Out of Class Only

Assignments

Other In-class Assignments

For each chapter students will divide into groups of 3-4 for a word share. Students participate in a Word Share activity using a list of 24 terms relevant to the chapter and each student has a full list of terms but only 6 of the definitions. The students will speak aloud each word on the list then check the back of their paper to see who has the definition. Whomever has the definition will read the definition out loud while the other students listen and write the definition in their own words.

Students will participate in small groups to perform body system labeling exercises.

Students will participate in learning activities that demonstrate key concepts such as protein folding and disease risk factor roulette

Other Out-of-class Assignments

Homework assignments that include the completion of questions relative to the major systems.

Students perform independent study using these questions to create a PowerPoint presentation to present a disease to the class:

- Etiology/Epidemiology:
 - What is the causative agent of the disease?
 - Who does the disease effect?
 - How common is the disease?
- Signs and Symptoms
 - What are the major signs and symptoms?
- Treatment
 - What treatments can be used for this condition?
- Prevention
 - How can this disease be prevented?

Grade Methods

Letter Grade Only

MIS Course Data**CIP Code**

51.9999 - Health Professions and Related Clinical Sciences, Other.

TOP Code

129900 - Other Health Occupations

SAM Code

C - Clearly Occupational

Basic Skills Status

Not Basic Skills

Prior College Level

Not applicable

Cooperative Work Experience

Not a Coop Course

Course Classification Status

Credit Course

Approved Special Class

Not special class

Noncredit Category

Not Applicable, Credit Course

Funding Agency Category

Not Applicable

Program Status

Program Applicable

Transfer Status

Not transferable

General Education Status

Not applicable

Support Course Status

Course is not a support course

Allow Audit

No

Repeatability

No

Materials Fee

No

Additional Fees?

No

Approvals**Curriculum Committee Approval Date**

12/03/2019

Academic Senate Approval Date

12/12/2019

Board of Trustees Approval Date

1/17/2020

Chancellor's Office Approval Date

6/15/2020

Course Control Number

CCC000233223

Programs referencing this courseEmergency Medical Services Certificate of Achievement (<http://catalog.collegeofthedesert.eduundefined?key=134/>)Vocational Nursing Certificate of Achievement (<http://catalog.collegeofthedesert.eduundefined?key=152/>)