

GRAND RAPIDS COMMUNITY COLLEGE

SCHOOL OF WORKFORCE DEVELOPMENT

GH 125

**INTRODUCTION TO THE STRUCTURE
AND FUNCTION OF THE HUMAN BODY**

Updated Fall 2019

GRAND RAPIDS COMMUNITY COLLEGE

GENERAL HEALTH

GH125

Introduction to the Structure and Function of the Human Body

COURSE DESCRIPTION: The study of the structure and function of the normal human body and the practices necessary to maintain normal health. Medical terminology of disorders related to each unit are also included.

Student Learner Outcomes:

1. Discuss levels of organization in the body necessary to sustain life
2. Describe the musculoskeletal system
3. Name and locate the bones of the body
4. Name and locate selected muscles of the body
5. Describe the nervous system
6. Discuss the general, special and organic senses
7. Discuss the endocrine system and related hormones
8. Describe the circulatory system
9. Name and locate the cardiac anatomy
10. Discuss the digestive system
11. Discuss the respiratory system
12. Discuss the urinary system
13. Describe systems of reproduction
14. Discuss fetal development
15. Explore pathogens and how the body responds to invasion

INSTRUCTIONAL MATERIALS, TOOLS AND SUPPLIES:

REQUIRED TEXT: Patton, K.T and Thibodeau, G.A. The Human body in Health and Disease. seventh edition. Mosby/Elsevier, 2014. ISBN 978-0-323-10124-0.

GRADING SCALE: A grade (score) of C or better is required

93-100%=A;

90-92=A-

87-89=B+

83-86=B

80-82=B-

77-79=C+

73-76=C

COURSE OUTLINE

UNITS:

- I. Levels of Organization
 - A. Introduction to Anatomy and Physiology
 - B. Body Organization
 - C. Chemical Basis of Life
 - D. Cell Structure and Function
 - E. Tissues
 - F. Glands
 - G. Membranes
 - H. Skin
- II. Disease and Immunity
 - A. Pathogens
 - B. Portal of entry
 - C. Epidemiology
 - D. Active and passive immunity
- III. Systems of Support and Movement
 - A. Skeletal
 - B. Muscular
- IV. Systems of Communication and Control
 - A. Nervous
 - B. General and Special Senses
- V. Systems of Transportation
 - A. Blood
 - B. Heart
 - C. Blood Vessels and Circulation

D. Lymph

VI. Systems of Processing and Elimination

A. Digestive

B. Respiratory

C. Urinary

VII. Systems of Reproduction/Hormonal influences of Health and Reproduction

A. Male

B. Female

C. Prenatal Development

D. The Endocrine system