

# Dakota County Technical College

## HEAL 1101: Anatomy and Physiology

### A. COURSE DESCRIPTION

Credits: 4

Lecture Hours/Week: 4

Lab Hours/Week: \*.\*

OJT Hours/Week: \*.\*

Prerequisites: None

Corequisites: None

MnTC Goals: None

This course is an introduction to the structure and function of the human body. Focus will be on the study of each individual organ system and the interaction of each system with the rest of the body.

**B. COURSE EFFECTIVE DATES:** 06/03/2002 - Present

### C. OUTLINE OF MAJOR CONTENT AREAS

### D. LEARNING OUTCOMES (General)

1. Describe the structural organization of the human body including: cell, body tissue, integumentary system, joint, musculoskeletal, nervous system, special senses, endocrine organs, digestive system, respiratory system, blood cell, lymphatic system, heart, cardiovascular system, urinary system, male and female reproductive organs I.C.1
2. List major organs in each body system: locate major bones, major muscles, major brain sections, endocrine system organs, lymph ducts, major lymph node groups, major veins and arteries, digestive systems organs, urinary system organs, reproductive system organs I.C.4
3. Identify body systems: define the terms anatomy, physiology, differentiate external/cellular respiration, describe cell/membrane processes, describe osmosis, diffusion, filtration and active transfer terminology, differentiate types of joints, describe meatopoiesis, describe hematopoeisis, describe interaction of organ systems I.C.2
4. Describe body planes, directional terms, quadrants and cavities: body regions, anatomical sections, relative positions and locate abdominal regions I.C.3
5. Describe the normal function of each body system including: cell, homeostasis, joint musculoskeletal, special senses, nephron, nervous system, brain, endocrine organ, blood tissue, blood system, integumentary system, lymphatic system, digestive system, respiratory system, urinary system, cardiovascular, female and male reproductive organs I.C.7
6. Discuss implications for disease and disability when homeostasis is not maintained I.C.8

### E. Minnesota Transfer Curriculum Goal Area(s) and Competencies

None

### F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

### G. SPECIAL INFORMATION

None noted