COURSE INFORMATION FORM

DISCIPLINE  Allied Health/ DENA
COURSE TITLE  Body Structure and Function
CR.HR  2  LECT HR.  2  LAB HR.  CLIN/INTERN HR.  CLOCK HR.  

CATALOG DESCRIPTION
This course provides students with an overview of basic structure and function of the various systems of the human body and on inflammation and healing.

PREREQUISITES
Formal Admission into the Dental Assisting Program, DENA 100, ENGL 101

EXPECTED STUDENT OUTCOMES IN THE COURSE (ESO)
Upon completion of this course, the student will be able to:
1. Identify body systems with emphasis on those important in dentistry.
2. Explain physiologic interrelationships between systems
3. Describe the process of inflammation and healing.

GENERAL EDUCATION OUTCOMES (ESO)
Specify which general education outcomes, if any, are substantially addressed by the course. Numbers in parentheses identify the Expected Student Outcomes linked to the specific General Education Outcome.
PROGRAM-LEVEL OUTCOMES

CAREER AND TECHNICAL EDUCATION PROGRAM OUTCOMES
Specify which Career and Technical program outcomes, if any, are substantially addressed by the course by completing the “Career and Technical Education template” to show the relationship between course and program outcomes to assessment measures.

2. Apply foundational knowledge of basic dentistry.
   • Demonstrate knowledge of human and dental development.

CLASS-LEVEL ASSESSMENT MEASURES
Student accomplishment of expected student outcomes may be assessed using the following measures. (Identify which measures are used to assess which outcomes.)

1. Written Examinations, 1-3
2. Assignments, 1-3
3. Quizzes, 1-3
Individual instructors may order this outline as fits the needs of their individual courses. In addition, they may place more emphasis on some areas than on others. What is assured is that this particular list is covered in the course. Other topics may be added to a course as the instructor sees fit, and as time and interest allow. An *asterisk can be used to mark an item as optional.

I. Definitions of Anatomy and Physiology
   A. Structural Levels - Organ Systems
   B. Anatomical Positions and their Relationships
   C. Body Cavities and their Organs
   D. Homeostasis and Feedback System

II. Nervous System
   A. Divisions and Functions
   B. Conduction and Pathways
   C. Major Structure of the CNS
   D. Divisions of the Brain and Functions
   E. Cranial Nerve
   F. Systematic and Autonomic Nervous System

III. Endocrine System
   A. Importance in Maintaining Homeostasis
   B. Hormones
   C. Endocrine and Exocrine Glands
   D. Hypo and Hyper Secretions and Reasons

IV. Integumentary System
   A. Body Membranes
   B. Functions
   C. Accessory Organs Associated with the Integumentary System

V. Skeletal System
   A. Types
   B. Functions
   C. Microscopic Structure
   D. Formation, Growth and Remodeling of Bone
   E. Joints and Articulation

VI. Circulatory System
   A. Heart
      1. Circulation
      2. Chambers
      3. Conduction
   B. Blood
      1. Composition
      2. Types of blood cells
         a. Functions of the types of blood cells
         b. Subcategories of the types of blood cells
c. Blood typing

d. Blood vessels - types of functions

VII. Respiratory System
   A. Functions/Mechanisms
   B. Structures

VIII. Digestive System
   A. Parts of and Functions
   B. Nutritional Components
   C. Absorption

IX. Nutrition and Metabolism
   A. Basic Food Types
   B. Role of the Liver
   C. Metabolism of Nutrients
   D. Vitamins and Minerals
   E. Eating Disorders

X. Reproductive and Urinary System
   A. Male/Female Reproductive Systems
   B. Function of Sex Hormones, Cells or Structures Responsible for their Secretion
   C. Sexually Transmitted Diseases
   D. Urinary System