



South Central College

DA 1811 Dental Science I

Course Outcome Summary

Course Information

Description	Dental Science is designed to provide the student with the fundamental, anatomical, and physiological structures of the human body. All body systems will be covered including embryology and histology. The focus of the course is to help students with no prior preparation in science to have a fundamental understanding of the structure and function of the human body with emphasis on the head and neck. The student will develop the necessary background knowledge to be a successful chairside and clinical assistant. (Prerequisites: admission to Dental Assisting program; AND a score of 78 or higher on the Reading portion of the Accuplacer test or completion of READ 0090 with a grade of C or higher; AND a score of 86 or higher on the Sentence Skills portion of the Accuplacer test or completion of ENGL 0090 with a grade of C or higher)
Total Credits	2
Total Hours	32

Types of Instruction

Instruction Type	Credits/Hours
Lecture	2/32

Pre/Corequisites

Admission to the Dental Assisting Program

Must have a score of 78 or higher on the Reading portion of the Accuplacer test or completion of READ 0090 with a grade of C or higher AND a score of 86 or higher on the Sentence Skills portion of the Accuplacer test or completion of ENGL 0090 with a grade of C or higher.

Institutional Core Competencies

Critical and Creative Thinking - Students will be able to demonstrate purposeful thinking with the goal of using a creative process for developing and building upon ideas and/or the goal of using a critical process for the analyzing and evaluating of ideas.

Course Competencies

1. Identify components of anatomical structures

Learning Objectives

Define cell structures/functions
Describe cell environment/reproduction
Describe developmental disorders

2. Identify embryologic stages

Learning Objectives

Identify facial development
Describe development disorders
Identify development abnormalities

3. Describe histology

Learning Objectives

Identify tissue types and functions
Determine tissue development process
Identify soft palate, pharynx structures/functions

4. Identify skeletal structures

Learning Objectives

Define skeletal regions
Identify skull osteology
Define skeletal terminology

5. Describe joint articulations/functions

Learning Objectives

Identify joint types/locations
Define joint disorders
Describe TMJ functions

6. Describe facial muscle structure

Learning Objectives

Identify mastication muscles
Define muscle contractions
Explain facial muscle structure/function
Identify muscle disorders

7. Identify circulatory system

Learning Objectives

Describe circulatory organs
Identify blood components/functions
Identify circulatory disorders
Explain circulatory/lymphatics functions

8. Describe nervous system/functions

Learning Objectives

Identify nervous system components
Explain nervous system disorders
Identify trigeminal nerve functions
Diagram trigeminal nerve structure

SCC Accessibility Statement

South Central College strives to make all learning experiences as accessible as possible. If you have a disability and need accommodations for access to this class, contact the Academic Support Center to request and discuss accommodations. North Mankato: Room B-132, (507) 389-7222; Faribault: Room A-116, (507) 332-7222.

Additional information and forms can be found at: www.southcentral.edu/disability

This material can be made available in alternative formats by contacting the Academic Support Center at 507-389-7222.