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](http://www.southcentral.edu/disability)
This material can be made available in alternative formats by contacting the Academic Support Center at 507-389-7222.