

South Central College

DA 1820 Dental Science I

Common Course Outline

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 3
Total Hours 48

Types of Instruction

Instruction Type Credits/Hours
Lecture 3/48

Pre/Corequisites

Admission to the Dental Assisting Program

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 Outcomes

1. Identify components of anatomical structures

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

Describe tissue development

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

9. Detail the Anterior and Posterior permanent dentition

Learning Objectives
Explain individual tooth function
Describe eruption patterns
Draw individual forms
Apply tooth identification methods

10. Classify primary dentition

Learning ObjectivesApply tooth identification methods
Define eruption/shedding patterns

Describe tooth forms, variations

11. Explain dental occlusion

Learning Objectives
Define occlusion
Identify malocclusion
Describe malocclusion disorders and treatments

12. Identify tooth development stages

Learning Objectives

Determine permanent eruption patterns
Explain primary eruption patterns
Identify tooth development phases

13. Identify annotation systems

Learning Objectives
Utilize the Universal annotation system
Utilize the Palmer annotation system
Utilize the International Numbering System (INS) annotation system

SCC Accessibility Statement

Disability Services provides accommodations and other supports to students with permanent and temporary disabilities that affect their SCC experience. Disabilities may include mental health (anxiety, depression, PTSD), ADHD, learning disabilities, chronic health conditions (migraine, fibromyalgia), sensory disabilities, and temporary disabilities (broken arm, surgery). Common accommodations are extended test time, private room for testing, audiobooks, and sign language interpreter.

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