DENTAL SCIENCES FOR THE DENTAL ASSISTANT
Course Syllabus

Course Number: PDA-0159  
OHLAP Credit: No

OCAS Code: None  
Course Length: 195 Hours  
Career Cluster: Health Science  
Career Pathway: Therapeutic Services  
Career Major(s): Dental Assistant, Professional Dental Assistant  
ODCTE Equivalent: HL000286 – Dental Science

Pre-requisite(s): 

Course Description: This course provides instruction in anatomy and physiology and microbiology especially as it relates to application to dental treatment and care. The student will learn about blood borne pathogens. The student will become familiar with the principles of diet and nutrition as they relate to the dental patient.

Textbooks: 

Online Components: 

Software: 
Eaglesoft 17.0 Dental Practice Management Software  

Course Objectives: 

A. Describe the form and function of dental structures.¹  
B. Differentiate between various pathological conditions.¹  
C. Identify patients with special pharmacological conditions.¹  
1. Determine appropriate resources for information on prescription drugs.  
2. Distinguish the conditions that may require prophylactic antibiotic treatment.  
3. Recall where to find reliable, current information about prophylactic antibiotic coverage.  
4. Evaluate health histories for health conditions that may require antibiotic premedication.  
5. List sources of official recommendations for conditions requiring prophylactic antibiotic coverage.  
D. Appraise various intellectual and physical disabilities for the most appropriate patient accommodations.  
E. Display knowledge of oral disease through patient education.¹
F. Interpret patient characteristics that may impact the choice of the appropriate oral physiotherapy aid.

G. Demonstrate safety skills for dental personnel and patient safety.¹

H. Describe head and neck anatomy¹

I. Explain oral cavity form and structures.¹

J. Apply knowledge of tooth morphology.¹

K. Select the proper dental laboratory materials for given dental procedures.¹

L. Manipulate dental laboratory materials.¹
   1. Identify armamentarium for mixing and manipulating dental materials
   2. Simplify manufacturer’s instructions for mixing and handling dental materials.
   3. Evaluate mixed materials for proper mixing technique and results.
   4. Identify and demonstrate proper initial removal/cleaning of dental materials from armamentarium, countertops, and other surfaces materials may have contacted.
   5. Interpret from MSDS appropriate personal protective equipment, safe use, handling, disposal, and storage of dental materials.

M. The student will demonstrate employability skills, including dependability, patient/client centered behavior, self-motivation-initiative, positive attitude, and adherence to policies.²

¹ ODCTE Objective
All unmarked objectives are TTC instructor developed.

Teaching Methods: The class will primarily be taught by the lecture and demonstration method and supported by various media materials to address various learning styles. There will be question and answer sessions over material covered in lecture and media presentations. Supervised lab time is provided for students to complete required projects.

Grading Procedures: 1. Students are graded on theory and lab practice and performance.
2. The PDA program requires courses to be passed at 70% or better. For secondary students to be eligible for advanced standing in the PDA program, the course must be passed at eighty (80%) or better.
3. Grading scale: A=90-100%, B=80-89%, C=70-79%, D=60-69%, F=50-59%.

Description of Classroom, Laboratories, and Equipment: Tulsa Technology Center campuses are owned and operated by Tulsa Technology Center School District No. 18. All programs provide students the opportunity to work with professionally certified instructors in modern, well-equipped facilities.

Available Certifications/College Credit: The student may be eligible to take state, national or industry exam after completion of the program. College credit may be issued from Oklahoma State University-Okmulgee or Tulsa Community College. See program counselor for additional information.

College Credit Eligibility: The student must maintain a grade point average of 3.0 or better.