CLINICAL SCIENCES FOR THE DENTAL ASSISTANT
Course Syllabus

Course Number: PDA-0110        OHLAP Credit: No
OCAS Code: None
Course Length: 159 Hours
Career Cluster: Health Science
Career Pathway: Therapeutic Sciences
Career Major(s): Professional Dental Assistant

Pre-requisite(s): THRP-0284 Foundations of Dental Assisting, HLTH-0169 Core Healthcare Provider CPR and First Aide (or Prior Credit/advanced standing for this course), PDA-0109 Biomedical Sciences for the Dental Assistant, PDA-0159 Biomedical Sciences for the Dental Assistant, and PDA-0000 Clinical Sciences I courses, all passed with 70% or better.

Course Description: The content of this course prepares the student to participate in laboratory and clinical experiences necessary to develop the skills to become a dental assistant. The course provides classroom and laboratory instruction.


http://evolve.elsevier.com/staticPages/s_index.html, Interactive Web Site, Sanders Elsevier
http://tulsatech.blackboard.com/

Software: Eaglesoft 17.0 Dental Practice Management Software

Course Objectives:

A. General Dentistry
   1. State the function of at least 10 dental hand instruments.  
   2. Demonstrate the preparation of a sterile pre-set tray for a restorative procedure.  
   3. Assemble plastic instruments for use.  

B. Dental Charting
   1. Describe the process of recording a periodontal examination.  
   2. Chart a periodontal examination.  

C. Chairside Assisting
   1. Demonstrate assisting during the preparation and placement of an amalgam
1. Describe the steps in the preparation and cementation of a single crown. 
2. Describe the steps in the preparation and cementation of a fixed bridge. 
3. Describe the use of gingival retraction cord. 
4. Describe the use of temporary coverage between crown and bridge visits. 
5. Describe the steps in preparation and placement of a direct-bonded veneer. 
6. Describe the steps in preparation and placement of an indirect-bonded veneer. 
7. Describe the steps in preparation and placement of a Class II posterior composite restoration. 
8. Demonstrate assisting with a Class II posterior composite restoration. 

D. Perform Oral Evacuation, Moisture control, and Instrument Transfer.
1. Demonstrate passing instruments in the position of use. 
2. Demonstrate the exchange of instruments, handpieces, and materials at chairside. 

E. Specialty Procedures
1. Describe the specialty of oral and maxillofacial surgery. 
2. Identify from set-up the specialized instruments used in oral surgery. 
3. Describe the dental assistant's role in oral surgery. 
4. Describe the steps in a forceps extraction. 
5. Provide presurgery and postsurgery instructions to the patient. 
6. Prepare the operatory for oral surgical procedures. 
7. Define these terms: coronal polish, dental prophylaxis, scaling, root planing, gingival curettage, gingivectomy, and gingivoplasty. 
8. Identify from set-up specialized instruments used in periodontics: periodontal probe, scalers, curettes, pocket marker, and periodontal knives. 
9. State the use of the ultrasonic scaler, prophy angle, rubber cup, and brushes. 
10. Define dental prophylaxis procedures. 
11. Describe the specialty of endodontics. 
12. Identify from set up the specialized instruments used in endodontics. 
13. Describe the specialized diagnostic tests used in an endodontic examination. 
14. State the need for a sterile field in endodontic treatment. 
17. Describe preventive, interceptive, and corrective orthodontics. 
18. Identify from set-up specialized instrumentation used in orthodontics. 
19. Describe the role of orthodontic separators. 
20. Describe the steps in the selection, cementation, and removal of orthodontic bands. 
21. Describe the steps in the placement, ligation, and removal of arch wire. 
22. Describe the steps in the direct bonding of orthodontic brackets. 
23. State the patient population served by pediatric dentistry and describe the special concerns of the pediatric dentist. 
24. Describe the steps in the application of pit and fissure sealants. 
25. Describe the use of fixed and removable space maintainers. 
26. Describe the steps in making a vacuum-formed custom mouth guard. 
27. Describe the application of topical fluoride using a commercial fluoride gel and trays.
28. Differentiate between fixed and removable prosthodontics.¹
29. Discuss the components of a partial removable denture.¹
30. Discuss the components of a complete removable denture.¹
31. Describe the steps in prosthodontic procedures.¹
32. Describe the care of complete and partial removable dentures.¹
33. Discuss the preparation of secondary impressions.¹
34. Discuss the shade and mold of the artificial teeth.¹
35. Discuss the try-in of the wax set-up.¹

F. Oral Health Education and Preventive Dentistry¹
1. State the primary goal of preventive dentistry.¹
2. Demonstrate proper brushing and flossing techniques.¹
3. Describe the use of fluorides in water, fluoride supplements, topical applications, dentifrices, and mouth rinses.¹
4. Describe dental plaque and state its role in causing dental disease.¹
5. Describe instructing a patient in the use of disclosing tablets, the Bass technique of tooth brushing, and the use of dental floss.¹
6. Describe the use of interdental cleanser, Perio-Aid, Stim-u-Dent, oral irrigation devices, therapeutic oral rinses.¹
7. Describe personal oral habits that may compromise general health.¹
8. Identify pre/post treatment instruction needed for patients.¹
9. Discuss plaque control techniques.¹

G. Dental and Medical Emergencies¹
1. List the five classifications of fractured teeth and describe the treatment for avulsed teeth.¹
2. Demonstrate the treatment for syncope, hyperventilation, and postural hypotension when the patient feels faint.¹

K. 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
² TTC required soft skills 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. Tulsa Tech students may be able to earn college credit based on their knowledge gained at Tech. The process of earning credit through Prior Learning Assessment (PLA) will be determined after completion with Tech and based on certification, credential or knowledge of the subject. See program counselor for additional information.

### College Credit Eligibility:

The student must maintain a grade point average of 3.0 or better.