

El Paso Community College

Syllabus

Part II

Official Course Description

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| SUBJECT AREA | <u>Dental Assisting</u> |
| COURSE RUBRIC AND NUMBER | <u>DNTA 2350</u> |
| COURSE TITLE | <u>Advanced Dental Assisting Applications</u> |
| COURSE CREDIT HOURS | <u> 3 1 : 5</u> Credits Lec Lab |

I. Catalog Description

Offers an advanced study of dental assisting expanded functions with emphasis on four-handed dentistry utilization of tray setups for specific general practice and specialties procedures. A grade of “C” or better is required in this course to take the next course. **Prerequisite: DNTA 1353. (1:5). Lab fee.**

II. Course Objectives

Theory Objectives

- A. Unit I. Patient Evaluation
1. Evaluate sample medical histories, assess the patient’s possible medical conditions, medications taken and be able to discuss the precautions necessary to be taken prior to/or to be taken during treatment.
 2. Review and discuss why dental charting is used in dental practices.
 3. Review and demonstrate the various charting methods used for charting the permanent and deciduous dentitions.
 4. Review G. V. Black’s classifications of cavity preparations.
 5. Review and demonstrate common abbreviations used to identify simple, compound, and complex oral conditions utilizing color indicators and identify charting symbols.
- B. Unit II. General dentistry procedures and techniques
1. Review and discuss general dentistry procedures
 2. Discuss and demonstrate techniques and tray-set ups and instruments utilized in general dentistry with emphasis on infection control techniques
 3. Review, discuss and demonstrate dental materials and medicaments utilized during the delivery of general dentistry procedures.
 4. Discuss and demonstrate the use of the rubber dam for isolation
- C. Unit III. Ethics and Jurisprudence
1. Discuss and compare ethics, jurisprudence, and risk management.
 2. Discuss all federal and state regulations that apply to dental jurisprudence, e.g., Americans with Disabilities Act, HIPPA
 3. Discuss professional and personal ethics and how they apply in the work place.

4. Discuss the four criteria which must be met if a decision is ethical and the four criteria which are met if a decision is not ethical.
5. State and discuss the philosophy of individual worth.
6. Describe the functions provisions of State Dental Practice Acts, the State of Dentistry's.
7. Discuss how the duties of dental auxiliaries are governed and how they are regulated under state law.
8. Define expanded functions.
9. Discuss the Texas Dental Practice Act.
10. Discuss the difference between certification, registration and licensure.
11. Discuss the causes for suspension or revocation of a license.
12. Discuss and list the four levels of supervision.
13. Describe the legal implications for one who engages in the unlicensed practice of dentistry.
14. Describe criminal and civil law as it applies to dentistry.
15. Differentiate between contract law and tort law.
16. Discuss the elements of a legal contract.
17. Differentiate between an implied and expressed contract.
18. Discuss consent.
19. Differentiate between an implied and expressed consent.
20. Discuss establishing a legal duty.
21. Differentiate between libel and liable.
22. Discuss malpractice as it applies to dentistry.
23. Discuss risk management and list the ten rules of risk management.
24. Discuss a patient's chart and who items are included in that chart.
25. Discuss emergency preparedness and its importance.
26. Discuss the assistant's role in risk management.
27. Define all related terms and vocabulary involved in this unit.

D. Unit IV. Emergency Management

1. Identify the causes, signs, and treatment of the emergencies related to:
 - a. Vasodepressor syncope
 - b. Asthma
 - c. Hyperventilation
 - d. Epilepsy
 - e. Diabetes mellitus
 - f. Hypoglycemia, angina pectoris
 - g. Myocardial infarction
 - h. Congestive heart failure
 - i. Stroke/cerebrovascular accident
2. Identify several dental emergencies that a patient might experience during treatment such as
 - a. Broken needle
 - b. Broken instrument
 - c. Soft-tissue injury
 - d. Alveolitis
 - e. Aspiration of a foreign object
 - f. Nitrous oxide-oxygen sedation
 - g. Avulsed tooth
3. Discuss the general legal duties to the patient of the dental health care team.
4. Discuss ways the dental health care team can prevent a lawsuit.
5. Discuss new technology periodically.

E. Unit V. Dental Specialties: Endodontics

1. Define endodontics and discuss the specialty.
2. Describe pulpal and periapical disease.

3. Identify diagnostic procedures related to endodontics.
4. Identify instruments used in endodontic procedures and describe their function.
5. Identify materials used in endodontic procedures and describe their function.
6. Describe endodontic procedures and the responsibilities of the dental assistant.
7. Explain surgical endodontic procedures and the instruments used.
8. Define all related terminology

F Unit VI. Dental Specialties: Oral and Maxillofacial Surgery

1. Describe the scope of oral and maxillofacial surgery.
2. Identify the various surgical instruments used in this type of surgery and describe their function.
3. Explain aseptic procedures followed in the oral surgeon's office.
4. Describe the evaluation procedures for new patients.
5. Describe how to prepare the patient for surgical treatment.
6. Explain surgical procedures, including tray setups and assisting responsibilities.
7. List postoperative instructions given to patients.
8. List and describe the types of dental implants and explain the procedures they are used with.
9. Explain the oral surgeon's relationship with the hospital.
10. Define all related terminology.
11. Explain the function of sutures and when they are placed.
12. List the equipment and supplies needed for suture removal.
13. Determine and identify the location and number of sutures and how to evaluate the healing process.
14. Identify the following suture patterns: simple, continuous simple, sling, continuous sling, horizontal, and vertical.
15. List the basic criteria for suture removal.
16. Demonstrate the steps of removal for identified suture patterns.
17. Discuss and explain postoperative patient care.

G. Unit VII. Dental Specialties: Orthodontics

1. Define orthodontics and describe orthodontic setting.
2. Define the role of the orthodontic assistant.
3. Define and describe occlusion and malocclusion.
4. Identify the causes of malocclusion.
5. Describe preventive, interceptive, and corrective orthodontics.
6. Explain the process of tooth movement.
7. Describe the pre-orthodontic records appointment.
8. Discuss the consultation appointment and the roles of the patient and the provider.
9. Differentiate between fixed and removable appliances.
10. Identify and give the functions of the basic orthodontic instruments.
11. Describe the stages of orthodontic treatment.
12. Explain the procedure for removing the orthodontic appliances and how the teeth are retained in position after removal of the appliances.
13. Define all related terminology.

H. Unit VIII. Dental Specialties: Pediatric Dentistry

1. Define the specialty of pediatric dentistry.
2. Describe the pediatric office and team members.
3. Explain common behavior management techniques
4. Explain the role of the parent or guardian in pediatric dentistry.
5. Identify common procedures in pediatric dentistry.
6. Identify the equipment unique to pediatric dentistry.
7. Discuss common emergencies in pediatric dentistry and the treatment for same.

8. Identify the signs of child abuse and the procedure for reporting suspected child abuse cases.
9. Define all related terminology.

I. Unit IX. Dental Specialties: Periodontics

1. Describe the scope of periodontics.
2. Describe the stages of periodontal disease.
3. Explain the diagnostic procedures involved in the patient's first visit to the periodontal office.
4. Identify and describe periodontal instruments and their uses.
5. Discuss non-surgical and surgical periodontal procedures.
6. Discuss the dental assistant's role in periodontal procedures.
7. Discuss surgical procedures associated with periodontal treatment.
8. Identify and manipulate the types of periodontal dressings.
9. Discuss periodontal maintenance procedure.
10. Define all related terminology.

J. Unit X. Dental Specialties: Fixed Prosthodontics

1. Define the scope of fixed Prosthodontics.
2. Explain considerations the operator must make when recommending various prostheses and their functions.
3. Describe the advantages and disadvantages of a removable prosthodontic appliance, its components, and the appointment schedule.
4. Describe various types of fixed prostheses and their function.
5. Describe dental materials used in fixed prostheses.
6. Explain the involvement of the laboratory technician in the fabrication of fixed prostheses.
7. Explain techniques for retaining the prosthesis when there is little or no crown on the tooth.
8. Describe implant retained prostheses.
9. Explain techniques for maintaining fixed prostheses.
10. Define all related terminology.
10. Explain the function of gingival retraction.
11. Describe the different types of gingival retraction.
12. Explain and demonstrate the steps involved in placing and removing gingival retraction cord.
13. Discuss and demonstrate the use and design of provisionals.

K. Unit XI. Dental Specialties: Removable Prosthodontics

1. Define removable Prosthodontics and the reason for removable prosthodontic treatment
2. Describe the patient considerations related to removable prosthetic treatment.
3. Outline the steps of the diagnostic appointment and list the materials needed.
4. Describe the consultation appointment and the materials required for the case presentation.
5. Describe the advantages and disadvantages of the partial denture, the components, and the appointment schedule.
6. Describe the complete denture, the patient considerations, and the appointment schedule.
7. Explain the types and steps of denture relining procedures.
8. Describe the procedure for a denture repair.
9. List the steps to polish a removable prosthetic appliance.
10. Explain the over denture and disadvantages related to it.
11. Define all related terminology.

L. Unit XII. Advanced Functions

1. *Occlusal Sealants*

- a. Explain the purpose of using enamel sealants and where they are placed.
- b. List the indications and contraindications of placing sealants.
- c. Discuss the role of the dental assistant in the placement of enamel sealants.
- d. Describe the types of sealant materials.
- e. List and describe the steps of the application procedures.

2. *Bleaching Techniques*

- a. Explain the benefits of the bleaching process used in dentistry.
- b. List and describe the types of bleaching techniques and describe the procedures for dental office bleaching for vital and non-vital teeth, and for home bleaching.
- c. Explain information given to the patient concerning outcomes, procedures, responsibilities, and precautions related to bleaching.

3. *Temporary crowns*

- a. Demonstrate the fabrication of temporary crowns and discuss the seating of them.

4. *Technology*

- a. Explain and demonstrate the use of an intra oral camera
- b. Explain and describe the use of microetcher, air abrasion, and laser technology.

Laboratory

Laboratory assignments are composed of the following topics:

1. Patient evaluation to include charting, vital signs, and medical histories.
2. Emergency management to include signs and symptoms of medical emergencies and management of dental emergencies.
3. Apply rubber dam to typodontics
4. Assisting with the following specialties to include the instruments utilized, procedure, and patient care:
 - a. Oral and maxillofacial surgery
 - b. Orthodontics
 - c. Pediatric dentistry
 - d. Periodontics
 - e. Fixed prosthodontics
 - f. Removable prosthodontics
 - g. Advanced functions

III. THECB Learning Outcomes (WECM)

1. Demonstrate expanded function procedures.
2. Perform coronal polishing.
3. Apply pit and fissure sealants.
4. Monitor nitrous oxide sedation.
5. Comply with OSHA and other regulatory agencies' standards.

IV. Evaluation**Progress Assessment**

Unit examinations, skills competencies, assignments, table clinic research, and a comprehensive final will be announced on the course calendar. Quizzes may be administered at the instructor's discretion and will

not appear on the course calendar.

Grade Distribution

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| Assignments/Quizzes | 10% |
| Table Clinic Research | 15% |
| Skill Competencies | 25% |
| Exams | <u>50%</u> |
| | 100% |

Grading Scale

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|-------------|---|
| 93 – 100 | A |
| 83 – 92 | B |
| 75 – 82 | C |
| 74 or below | F |

Remediation

Graded assignments will be returned to the student in a timely manner for the student's use in estimating his/her progress in the course. Additionally, the instructor will conduct periodic progress discussions with each student. However, it is the student's responsibility to schedule an individual conference with the instructor should either party feel that the student is not meeting at least the minimum passing standard for the course. The instructor may provide remediation opportunities which may include but are not limited to: supplemental assignments, reexamination, presentations, community projects, etc.

V. Disability Statement (Americans with/Disabilities Act [ADA])

EPCC offers a variety of services to persons with documented sensory, mental, physical, or temporary disabling conditions to promote success in classes. If you have a disability and believe you may need services, you are encouraged to contact the Center for Students with Disabilities to discuss your needs with a counselor. All discussions and documentation are kept confidential. Offices located: VV Rm C-112 (831-2426); TM Rm 1400 (831-5808); RG Rm B-201 (831-4198); NWC Rm M-54 (831-8815); and MDP Rm A-125 (831-7024).

VI. 6 Drop Rule

Students who began attending Texas public institutions of higher education for the first time during the Fall 2007 semester or later are subject to a 6-Drop limit for all undergraduate classes. Developmental, ESL, Dual Credit and Early College High School classes are exempt from this rule. All students should consult with their instructor before dropping a class. Academic assistance is available. Students are encouraged to see Counseling Services if dropping because exemptions may apply. Refer to the EPCC catalog and website for additional information.