Course Syllabus
Wayne County Community College District
DA 202       Expanded Functions for the Dental Assistant

CREDIT HOURS:  3.00

CONTACT HOURS: .00

COURSE DESCRIPTION:
This lecture/laboratory course is designed to prepare the student to sit for the RDA examination in
the State of Michigan. Expanded functions not already covered as allowed under Michigan law
will be taught. Topics include but are not limited to: placement and removal of rubber dam,
placement and removal of nonmetallic temporary restorations, removing excess cement from
supragingival surfaces of a tooth with non-rotary instruments, applications of anticarcinogenics
after prophylaxis, mouth mirror inspection and charting of the oral cavity, sizing of temporary
crowns and bands, removal of sutures, and the placement and removal of periodontal dressings.

PREREQUISITES:  DA 117

EXPECTED COMPETENCIES:
Upon successful completion of this course, the student will:

- A combination of knowledge, psychomotor skill, communication skill and/or attitude.
- Independently performed at or above an acceptable level of a defined standard.

- As a participating member of the health care team the dental assistant plays an integral role in the delivery of dental services to individuals and populations of all ages, including the medically compromised, mentally or physically challenged and socially or culturally disadvantaged. Each dental assisting course in the curriculum will strive to facilitate and certify the competence of the dental assisting student.

- Collect diagnostic and treatment data.
- Manage infection and hazard control.
- Perform clinical supportive treatments.
- Take diagnostic radiographs
- Perform dental laboratory procedures
- Provide patient oral health instruction
- Assist in managing medical emergencies
- Model professional behaviors, ethics, and appearance
• Carry out dental office procedures

**Specific Performance Objectives**

• Periodontal Dressings & Suture Removal

**Lecture:**
• Identify ingredients and demonstrate mixing, placing and removing a periodontal dressing.
• Outline the post treatment instructions following the placement of a periodontal dressing.
• Identify the armamentarium used for the removal of sutures.
• Explain the procedure for the removal of sutures.

**Lab:**
• Prepare, place and remove periodontal dressings on typodonts and student patient.
• Demonstrate the correct method for removing sutures on a typodont.

**Pit & Fissure Sealants - Lecture:**
• Describe the purpose of pit and fissure sealant.
• Identify the indications and contraindication for the placement of pit and fissure sealant.
• List and describe the procedure for placing sealant
• Identify the types of teeth that qualify for the placement of sealant.
• Describe the purpose of application of topical anesthetic
• List and describe the procedural steps in applying topical anesthetic to a variety of injection sites.
• Describe the purpose and method for selective coronal polishing prior to an anticariogenic procedure

**Prepare, place and remove a dental dam on typodonts and patients to a clinically acceptable level.**

**Lab:**
• Correctly apply pit and fissure sealants to a typodont and a patient.
• Demonstrate and verbalize technique for application of topical anesthetic prior to injection of local anesthetic.
• Perform a selective coronal polishing procedure on a typodont and a patient to a clinically acceptable level.

**Rubber Dam Placement and Removal**

• Identify and demonstrate the use of instruments in the preparation, placement and removal of the dental dam.
• Describe the types of dental dam material and dental dam clamps.
• Describe the sequence of placing a dental dam on a dental quadrant (no less than 6 teeth).
• Describe the precautions indicated in the placement and removal of the dental dam.
• Explain the purpose of the dental dam and identify who places the dental dam on a patient.

**Lab:**
• Prepare dental dam armentarium
• Prepare patient for placement of dental dam
• Identify appropriate teeth to be clamped
• Place and Remove dental dam to competency
• Oral Examination
  • Lecture:
    • Describe a clinical examination of the hard and soft tissues of the oral cavity, face, and neck.
    • Define the terminology related to occlusion.
    • Define Angle's classification of occlusion.
    • Identify the ideal patterns of occlusal markings when checking the patient's occlusion.
    • Describe the purpose of obtaining vital signs prior to administering dental treatment.
    • Describe the process of obtaining vital signs: respiration rate, pulse, rate, and blood pressure reading.
  • Lab:
    • Perform a mouth mirror inspection of the oral cavity and chart existing conditions, including missing teeth, lesions, restorations, and classification of occlusion.
  • Topical Fluoride
  • Lecture:
    • Describe the procedures for application of topical fluoride.
    • Describe causes of tooth sensitivity
    • Describe use and function of desensitizing agents
  • Lab:
    • Demonstrate and verbalize the techniques for the application of various fluoride agents and document it correctly in the patient's chart.
    • Place desensitizing agents on student patient
• Orthodontics
  • Lecture:
    • Describe the criteria for selecting orthodontic bands and brackets
    • Describe the procedure for sizing and cementing orthodontic bands.
    • Describe the steps in the removal of excess cement of orthodontic bands.
    • Describe the procedure for inspecting orthodontic bands.
    • Identify orthodontic instruments, equipment and there function.
    • Identify various orthodontic appliances.
    • Describe the procedure for placement and removal of orthodontic elastic ligature and arch wires.
    • Describe the procedure for tooth etching and placing of adhesives prior to placement of orthodontic brackets
    • Describe steps in taking impression for orthodontic study models
    • Describe steps in taking final impressions for orthodontic appliances.
  • Lab:
    • Inspect orthodontic bands with a mouth mirror and explorer to identify loose bands on a typodont or a patient.
• Perform orthodontic procedure sizing and cementing of bands and brackets on a typodont.

• **Pulp Testing**
  - **Lecture:**
    - Describe the steps in endodontic therapy
    - Describe patient symptoms that are related to pulp vitality testing.
    - Describe the procedure for pulp vitality testing.
    - Identify armamentarium necessary in pulp vitality testing.
    - Explain criteria used in evaluation for pulp vitality testing.
    - Identify materials used in the drying for the pulp canals during endodontic therapy.

• **Lab:**
  - Perform pulp vitality test on student patient

• **Final Impressions**
  - **Lecture:**
    - Describe all of the materials used in taking a final impression for a fixed prosthesis.
    - Describe the criteria in taking an accurate final impression for a fixed prosthesis
    - Describe infection control procedures necessary prior to shipping impressions to the laboratory
    - Identify the materials necessary for placing gingival retraction cord.
    - Describe the difference between retraction impregnated with epinephrine and retraction cord without.
    - Describe the effects of using epinephrine on tissues and the patient.
    - Describe criteria necessary in the use of gingival retraction cord.

• **Lab:**
  - Take final impressions for indirect restoration on typodont and student patient.
  - Place retraction cord prior to final impression on a typodont

• **Temporary Aluminum/Acrylic Crown:**
  - **Lecture:**
    - List and describe conditions when temporary restorations would be the treatment of choice.
    - Identify types of temporary crowns and criteria for acceptable placement.
    - Explain the procedural steps in making and placing the following temporary restorations:

**ASSESSMENT METHODS:**
Student performance may be assessed by examination, quizzes, case studies, oral reports, group discussion, written reports or presentations. The instructor reserves the option to employ one or more of these assessment methods during the course.

**GRADING SCALE:**
- A = 94% to 100%
- B = 87% to 93%
- C = 80% to 86%
- D = 73% to 79%
E = less than 72%