

**EXAM INFORMATION****Items**

28

Points

57

Prerequisites

DENTAL SCIENCE I

DENTAL SCIENCE II

Grade Level

12

Course Length

ONE SEMESTER

Career Cluster

HEALTH SCIENCE

NCHSE HEALTH SCIENCE BUNDLE

Performance Standards

INCLUDED

Certificate Available

YES

DESCRIPTION

An instructional program that prepares individuals to assist a dentist or dental hygienist performing the functions of a dental practice. Includes instruction in a chair-side assisting, patient preparation, front office functions, selected dental office laboratory procedures, and introduction to radiology

EXAM BLUEPRINT**STANDARD****PERCENTAGE OF EXAM**

1- Prosthodontic Procedures	14%
2- Surgical Procedures	16%
3- Endodontics	19%
4- Orthodontics	12%
5- Pediatric Patients	9%
6- Periodontics	14%
7- Laboratory Procedures	16%



STANDARD I

STUDENTS WILL PERFORM SKILLS AND ASSIST WITH PROSTHODONTIC PROCEDURES, INCLUDING DENTURES, CROWN, AND BRIDGES

- Objective 1 Identify types of prosthetic appliances, including fixed or removable.
- Objective 2 Explain the various prosthodontic procedures.
 - 1. Dentures
 - 2. Crowns
 - 3. Bridges
 - 4. Partials
 - 5. Veneers
- Objective 3 Identify instruments used in crown and bridge procedures.
- Objective 4 Set up for a crown and bridge procedure.
- Objective 5 Complete laboratory authorization forms.
- Objective 6 Mix cements both temporary and permanent.
- Objective 7 Demonstrate patient education on the care of maintenance of prosthetic.
- Objective 8 Prepare a setup tray for removable prosthodontics (partials and dentures).
- Objective 9 Record procedure in patient chart.

Standard I Performance Evaluation included below (Optional)

STANDARD 2

STUDENTS WILL DEMONSTRATE BASIC KNOWLEDGE OF AND ASSIST WITH COMMON SURGICAL PROCEDURES.

- Objective 1 Identify the instruments in a basic surgical setup and describe their function.
- Objective 2 Set up for a basic extraction.
- Objective 3 Place and remove post-extraction dressings (2x2 gauze).
- Objective 4 Describe how to respond to post-surgical bleeding.
- Objective 5 Demonstrate the ability to explain post-op instructions to a patient.
- Objective 6 Explain a “dry socket” and know its causes.
- Objective 7 Identify the instruments used in suture removal and describe the functions of each.
- Objective 8 Set up for a suture removal.
- Objective 9 Remove sutures.
- Objective 10 Record basic extraction procedure in patient record.

Standard 2 Performance Evaluation included below (Optional)



STANDARD 3

STUDENTS WILL DEMONSTRATE BASIC KNOWLEDGE OF AND ASSIST WITH PROCEDURES RELATED TO ENDODONTICS

- Objective 1 Identify the instruments and accessories used in endodontic treatment and describe their functions.
- Objective 2 Set up for basic endodontic procedures.
- Objective 3 List the general steps in endodontic diagnosis.
- Objective 4 List and describe the methods of pulp testing.
- Objective 5 Explain root canal procedure to patient.
- Objective 6 Place and remove dental dam.
- Objective 7 Demonstrate the ability to provide post-op instructions to patient.
- Objective 8 Record basic endodontic treatment in patient record.

Standard 3 Performance Evaluation included below (Optional)

STANDARD 4

STUDENTS WILL DEMONSTRATE BASIC KNOWLEDGE OF AND PERFORM SKILLS RELATED TO ORTHODONTICS

- Objective 1 Demonstrate knowledge of the Palmer numbering system.
- Objective 2 Identify the three types of occlusion.
 - 1. Neutro
 - 2. Overbite
 - 3. Underbite
- Objective 3 List the benefits of orthodontic treatment.
- Objective 4 List the steps in obtaining records for orthodontic treatment and planning.
- Objective 5 Provide patient information on caring for orthodontic appliances.
- Objective 6 Provide proper oral hygiene and dietary instructions as it relates to orthodontic appliances.

STANDARD 5

STUDENTS WILL SHOW BASIC KNOWLEDGE OF, DEMONSTRATE SKILLS, AND ASSIST WITH PROCEDURES ON PEDIATRIC PATIENTS

- Objective 1 List and explain common procedures in pediatric dentistry.
- Objective 2 Apply and demonstrate effective communication with children.
- Objective 3 Identify and demonstrate patient management techniques for children.
- Objective 4 List the areas of preventive dentistry for children.
- Objective 5 Apply pit and fissure sealants.
- Objective 6 Compare pediatric procedures with those of adults, including cleaning, exam, restorative pulpotomy, and stainless-steel crown.



- Objective 7 Demonstrate the use of a patient education plan for instructing children and parents about oral hygiene.
- Objective 8 Describe types of injuries commonly seen in pediatric dentistry.
- Objective 9 Demonstrate knowledge of the first aid/emergency treatment for common injuries in pediatric dentistry.
- Objective 10 List types of child abuse.
- Objective 11 Describe injuries consistent with child abuse.
- Objective 12 Discuss the role of the Dental Assistant in reporting child abuse.
- Objective 13 Record pit and fissure sealant procedure in patient record.

Standard 5 Performance Evaluation included below (Optional)

STANDARD 6

STUDENTS WILL DEMONSTRATE KNOWLEDGE OF AND PERFORM SKILLS RELATED TO PERIODONTICS

- Objective 1 Set up for a dental prophylaxis.
 - 1. Ultrasonic scaler
 - 2. Precaution
- Objective 2 List the causes of periodontal disease.
- Objective 3 Describe the signs and symptoms of periodontal disease.
- Objective 4 List the surgical and non-surgical treatments for periodontal disease.
- Objective 5 Outline the use of mixing materials used in periodontal dressing.
- Objective 6 Demonstrate the ability to give post-op instruction for periodontal procedures.
- Objective 7 Record prophylaxis/periodontal treatment in patient record.

Standard 6 Performance Evaluation included below (Optional)

STANDARD 7

STUDENTS WILL UTILIZE MATERIALS AND DEMONSTRATE SKILLS RELATED TO IN-OFFICE LABORATORY PROCEDURES

- Objective 1 Identify and describe the major pieces of equipment found in the laboratory and the functions of each.
- Objective 2 List the three types of impressions taken in a dental office.
- Objective 3 Demonstrate the ability to explain the impression procedure to a patient.
- Objective 4 Take preliminary impressions.
- Objective 5 Pour, trim, and evaluate the quality of models.
- Objective 6 Fabricate a thermal plastic tray.

Standard 7 Performance Evaluation included below (Optional)



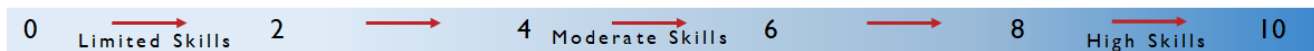
Dental Science III Performance Standards (Optional)

Performance assessments may be completed and evaluated at any time during the course. The following performance skills are to be used in connection with the associated standards and exam. To pass the performance standard the student must attain a performance standard average of **8 or higher** on the rating scale. Students may be encouraged to repeat the objectives until they average **8 or higher**.

Students Name _____

Class _____

PERFORMANCE RATING SCALE



STANDARD 1 Prosthodontic Procedures

Score:

- Set up for crown and bridge procedure.
- Mix cements both temporary and permanent.
- Demonstrate patient education on the care and maintenance of prosthetic appliances.
- Record procedures in the patient record.

STANDARD 2 Surgical Procedures

Score:

- Set up for a basic extraction.
- Place and remove post extraction dressings.
- Set up for a suture removal.
- Record basic extraction in the patient record.

STANDARD 3 Endodontics

Score:

- Set up for basic endodontic procedures.
- Record basic endodontic treatment in the patient record.

STANDARD 5 Pediatric Patients

Score:

- Apply pit and fissure sealant.

STANDARD 6 Periodontics

Score:

- Set up for a dental prophylaxis.
- Record prophylaxis/periodontal treatment in the patient record.

STANDARD 7 Laboratory Procedures

Score:

- Take preliminary impressions.
- Pour, trim, and evaluate the quality of models.
- Fabricate a thermal plastic tray.

PERFORMANCE STANDARD AVERAGE SCORE: