

DENT 104: CHAIRSIDE ASSISTING

Citrus College Course Outline of Record

| Heading | Value |
|-------------------------------|------------------------|
| Effective Term: | Fall 2023 |
| Credits: | 4 |
| Total Contact Hours: | 144 |
| Lecture Hours : | 45 |
| Lab Hours: | 99 |
| Hours Arranged: | 0 |
| Outside of Class Hours: | 90 |
| Total Student Learning Hours: | 234 |
| Prerequisite: | DENT 100 and DENT 122. |
| Transferable to CSU: | No |
| Transferable to UC: | No |
| Grading Method: | Standard Letter |

Catalog Course Description

This lecture/lab course provides preclinical instruction in four-handed dentistry techniques and prepares the student to assist a dentist at chairside. Content includes: the use and care of dental equipment, oral evacuation, instrument transfer, tray setups, infection control/disease transmission, preparation of anesthetic syringe, dental dam, tofflemire matrix, cavity preparation, and rotary and hand instruments. Emphasis is placed on the responsibilities of a chairside dental assistant during general restorative procedures. 45 lecture hours, 99 lab hours.

Course Objectives

- identify, manipulate and maintain all types of dental operating equipment
- record dictated diagnosis and treatment (in a patient chart) in a manner consistent with current standards
- demonstrate and apply knowledge of infection control, sterilization and safety standards
- demonstrate knowledge of and ability to perform all duties relative to chairside assisting
- demonstrate ability to interact with patients and work effectively as a member of the dental team
- demonstrate knowledge of and ability to identify instruments and set up instruments trays and commonly used in restorative dentistry

Major Course Content

Lecture Content

1. Introduction to the Dental Health Care Team
 - a. The dental team in practice
 - b. Factors affecting the efficiency of the dental team
2. Dental Operatory Equipment
 - a. Unit
 - b. Chair
 - c. Stools
 - d. Delivery systems

- e. Ergonomics
 - f. Positioning for treatment
3. Seating and Dismissing the Patient
 - a. Preparing the operatory for the patient
 - b. Seating
 - c. Dismissing
 - d. Making entries in the patient record
 - e. Medical Emergencies
 4. Infection Control
 - a. Modes of disease transmission
 - b. Cross-contamination
 - c. Methods to prevent cross-contamination
 5. Moisture Control in the Oral Cavity
 - a. Purpose
 - b. Oral evacuation
 - c. Cotton rolls
 - d. Rubber dam
 - e. Use of the air/water syringe
 - f. Tongue/cheek retractors
 6. Restorative Dentistry
 - a. Introduction
 - b. Cavity preparation
 7. Hand Instruments
 - a. Identifying hand instruments
 - b. Student instrument kit
 - c. Identifying marks
 8. Armamentarium for Restorative Procedures
 - a. Amalgam
 - b. Composite
 - c. Fixed prosthetics
 9. Rubber Dam
 - a. Introduction
 - b. Armamentarium
 - c. Procedure
 - d. Criteria
 10. Tofflemire Matrix
 - a. Introduction
 - b. Armamentarium
 - c. Procedure
 - d. Criteria
 11. Instrument Transfer
 - a. Benefits
 - b. Principles
 - c. Finger rests and fulcrums
 - d. Instrument grasps
 - e. Technique
 12. Rotary Instruments
 - a. Terminology
 - b. Parts of a bur
 - c. Types of burs
 - d. Abrasives
 13. Local Anesthetic
 - a. Introduction
 - b. Agents

- c. Types of injections
 - d. Armamentarium
 - e. Assembling the syringe
 - f. Transferring the syringe
14. Dental Handpieces
- a. Types and characteristics
 - b. Attachments
 - c. Assembling
 - d. Maintenance, care and sterilization

Lab Content

1. Dental Operatory Equipment
 - a. Unit
 - b. Chair
 - c. Stools
 - d. Delivery systems
 - e. Ergonomics
 - f. Positioning for treatment
2. Seating and Dismissing the Patient
 - a. Preparing the operatory for the patient
 - b. Seating
 - c. Patient Assessment/Vital Signs
 - d. Dismissing
3. Infection Control
 - a. Use of Barriers
 - b. Disinfection Techniques
4. Moisture Control in the Oral Cavity
 - a. Oral evacuation
 - b. Cotton rolls
 - c. Rubber dam
 - d. Use of the air/water syringe
5. Hand Instruments
 - a. Identifying hand instruments
 - b. Student instrument kit
6. Armamentarium for Restorative Procedures
 - a. Amalgam
 - b. Composite
 - c. Fixed prosthetics
7. Rubber Dam
 - a. Introduction
 - b. Armamentarium
 - c. Procedure
 - d. Criteria
8. Tofflemire Matrix
 - a. Introduction
 - b. Armamentarium
 - c. Procedure
 - d. Criteria
9. Instrument Transfer
 - a. Finger rests and fulcrums
 - b. Instrument grasps
 - c. Technique
10. Rotary Instruments

- a. Types of burs
 - b. Abrasives
11. Local Anesthetic
- a. Armamentarium
 - b. Assembling the syringe
 - c. Apply Topical Anesthetic
 - d. Transferring the syringe
12. Dental Handpieces
- a. Types and characteristics
 - b. Attachments
 - c. Assembling
 - d. Maintenance, care and sterilization

Suggested Reading Other Than Required Textbook

Professional journals, current editions.

Examples of Required Writing Assignments

Skill evaluation is a more effective way to evaluate students in this class.

Examples of Outside Assignments

List by name, number and function the burs commonly used in restorative preparation.

Given a list of instruments, identify the function of each.

Given a restorative scenario, discuss the various isolation techniques needed and the role of each.

Practice skills in laboratory setting.

Evaluate peers in laboratory setting.

Instruction Type(s)

Lab, Lecture, Online Education Lecture