

College of San Mateo
Official Course Outline

1. **COURSE ID:** DENT 722 **TITLE:** Dental Materials II **C-ID:** DENA 105X (DENT 721 & 722)
Units: 2.0 units **Hours/Semester:** 16.0-18.0 Lecture hours; 48.0-54.0 Lab hours; and 32.0-36.0 Homework hours

Method of Grading: Letter Grade Only

Prerequisite: DENT 721

2. **COURSE DESIGNATION:**

Degree Credit

Transfer credit: none

3. **COURSE DESCRIPTIONS:**

Catalog Description:

Learn to perform allowable duties for a RDA to include placing liners, bases, bonding agents, isolation devices, and matrices at the novice level utilizing safety precautions. Further study of dental materials including, but not limited to, custom trays, bleach trays, removable prosthodontics, and implants. This course contains the didactic and clinical components to meet the requirements for a California approved course in pit and fissure sealants certificates. (This course is offered in the Spring only.)

4. **STUDENT LEARNING OUTCOME(S) (SLO'S):**

Upon successful completion of this course, a student will meet the following outcomes:

1. Demonstrate the ability to fabricate custom bleach trays.
2. Demonstrate the ability to fabricate a custom provisional restoration.
3. Demonstrate the ability to place a temporary sedative dressing while using a tofflemire matrix system with wedges.
4. Describe and demonstrate the proper sequence of pit and fissure sealant placement.

5. **SPECIFIC INSTRUCTIONAL OBJECTIVES:**

Upon successful completion of this course, a student will be able to:

1. Demonstrate the ability to fabricate custom bleach trays.
2. Demonstrate the ability to fabricate a custom provisional restoration.
3. Demonstrate the ability to place a temporary sedative dressing.
4. Describe and demonstrate the proper sequence of pit and fissure sealant placement.

6. **COURSE CONTENT:**

Lecture Content:

1. Custom Provisional Coverage
 - A. Types
 - B. DA's role
 - C. Home care instruction
 - D. Fabrication of custom acrylic vs. preformed polycarbonate crowns
 - E. Cementation techniques: types of cements, mixing styles, armamentarium
2. Partial and Full Dentures
 - A. Differentiation
 - B. Indications vs. Contraindications
 - C. Components
 - D. Steps in fabrication
 - E. DA's role
 - F. Immediate vs. Over dentures
 - G. Delivery process
 - H. Home care instructions
 - I. Relining vs. Repair
 - J. Polishing sequence
3. Dental Implants
 - A. Patient selection/Successful Candidates
 - B. Indications vs. Contraindications
 - C. Types

- D. Steps in surgical procedures
- E. Home care instructions; follow up visits
- F. DA's role in implantation cases and surgery
- 4. Periodontal Dressing
 - A. Delivery systems
 - B. Gun Technique vs. Hand mixing
- 5. Fabrication of Bleach Trays and Custom Trays
- 6. Tofflemire Matrix System and Wedge (Review)
 - A. Classifications review
 - B. Use and purpose of the matrix system
 - C. Types
 - D. Use and purpose of the wedge
 - E. Alternatives to the matrix system
 - F. Assembly of retainer and band within matrix system
 - G. Placement and removal of matrix system
- 7. Clinical Practice
 - A. Practice for California State Registered Dental Assistant Exam (Practical Portion)
 - B. Temporary Crown #8 (Custom Acrylic Provisional)
 - C. Place tofflemire matrix and wedge #19
 - D. Place Temporary Filling #19
 - E. Place Base
 - F. Place Liner
- 8. Sealant Criteria
 - A. Areas of application
 - B. Patient selection factors
 - C. Other indication factors
- 9. Mock Board Exams in lab sections

Lab Content:

- 1. Identifying Custom Provisional Coverage
 - A. Types
 - B. Home care instruction
 - C. Fabrication of custom acrylic vs. preformed polycarbonate crowns
 - D. Cementation techniques: types of cements, mixing styles, armamentarium
- 2. Identifying Partial and Full Dentures
 - A. Components
 - B. Steps in fabrication
 - C. Delivery process
 - D. Home care instructions
 - E. Relining vs. Repair
 - F. Polishing sequence
- 3. Dental Implants
 - A. Home care instructions; follow up visits
- 4. Applying Periodontal Dressing
 - A. Delivery systems
 - B. Gun Technique vs. Hand mixing
- 5. Fabrication of Bleach Trays and Custom Trays
- 6. Placement of Tofflemire Matrix System and Wedge (Review)
 - A. Assembly of retainer and band within matrix system
 - B. Placement and removal of matrix system
- 7. Clinical Practice
 - A. Temporary Crown #8 (Custom Acrylic Provisional)
 - B. Place tofflemire matrix and wedge #19
 - C. Place Temporary Filling #19
 - D. Place Base
 - E. Place Liner

7. REPRESENTATIVE METHODS OF INSTRUCTION:

Typical methods of instruction may include:

- A. Lecture
- B. Lab
- C. Discussion
- D. Other (Specify): Typical methods of instruction may include: Lectures, power point presentations, videos, group discussions, demonstrations in lab.

8. REPRESENTATIVE ASSIGNMENTS

Representative assignments in this course may include, but are not limited to the following:

Writing Assignments:

None

Reading Assignments:

Students will complete readings from the textbook along with workbook and worksheet assignments.

Other Outside Assignments:

None

To be Arranged Assignments:

None

9. REPRESENTATIVE METHODS OF EVALUATION

Representative methods of evaluation may include:

- A. Class Participation
- B. Class Performance
- C. Class Work
- D. Exams/Tests
- E. Homework
- F. Lab Activities
- G. Quizzes
- H. Written examination
- I. Students will be evaluated as based on participation in class (both lecture and lab), completion of workbook and worksheet homework assignments, quizzes, competencies on lab work and skills, lab projects with and without lab partners, and final examinations.

10. REPRESENTATIVE TEXT(S):

Possible textbooks include:

- A. Bird, D. and Robinson, D.. *Modern Dental Assisting Textbook and workbook*, 13th ed. Elsevier, 2021

Origination Date: November 2021

Curriculum Committee Approval Date: March 2022

Effective Term: Fall 2022

Course Originator: Beth LaRochelle