

# DH R034: DENTAL HYGIENE CLINICAL PRACTICE II

**Originator**  
aderdiarian

## College

Oxnard College

## Discipline (CB01A)

DH - Dental Hygiene

## Course Number (CB01B)

R034

## Course Title (CB02)

Dental Hygiene Clinical Practice II

## Banner/Short Title

DH Clinical Practice II

## Credit Type

Credit

## Start Term

Fall 2021

## Catalog Course Description

This course provides intermediate experience in the treatment of dental hygiene patients to expand on the procedures and techniques and provides additional experience on more difficult patient cases. Limitations on enrollment: Physical/clinical examination (within the last year); Negative Tuberculosis Mantoux test or chest x-ray; Hepatitis B Vaccine & titer; Tetanus Vaccine; Titers showing immunity to Rubella, Rubeola, and Varicella; CPR certification. Field trips may be required.

## Taxonomy of Programs (TOP) Code (CB03)

1240.20 - \*Dental Hygienist

## Course Credit Status (CB04)

D (Credit - Degree Applicable)

## Course Transfer Status (CB05) (select one only)

C (Not transferable)

## Course Basic Skills Status (CB08)

N - The Course is Not a Basic Skills Course

## SAM Priority Code (CB09)

B - Advanced Occupational

## Course Cooperative Work Experience Education Status (CB10)

N - Is Not Part of a Cooperative Work Experience Education Program

## Course Classification Status (CB11)

Y - Credit Course

## Educational Assistance Class Instruction (Approved Special Class) (CB13)

N - The Course is Not an Approved Special Class

## Course Prior to Transfer Level (CB21)

Y - Not Applicable

## Course Noncredit Category (CB22)

Y - Credit Course

**Funding Agency Category (CB23)**

Y - Not Applicable (Funding Not Used)

**Course Program Status (CB24)**

1 - Program Applicable

**General Education Status (CB25)**

Y - Not Applicable

**Support Course Status (CB26)**

N - Course is not a support course

**Field trips**

May be required

**Grading method**

Letter Graded

**Does this course require an instructional materials fee?**

No

**Repeatable for Credit**

No

**Is this course part of a family?**

No

**Units and Hours**

**Carnegie Unit Override**

No

**In-Class**

**Lecture**

**Activity**

**Laboratory**

**Minimum Contact/In-Class Laboratory Hours**

210

**Maximum Contact/In-Class Laboratory Hours**

210

**Total in-Class**

**Total in-Class**

**Total Minimum Contact/In-Class Hours**

210

**Total Maximum Contact/In-Class Hours**

210

**Outside-of-Class**

**Internship/Cooperative Work Experience**

**Paid**

**Unpaid**

### **Total Outside-of-Class**

**Total Outside-of-Class**

### **Total Student Learning**

**Total Student Learning**

**Total Minimum Student Learning Hours**

210

**Total Maximum Student Learning Hours**

210

**Minimum Units (CB07)**

4

**Maximum Units (CB06)**

4

### **Prerequisites**

DH R020 and DH R021 and DH R022 and DH R023 and DH R024 and DH R025

### **Corequisites**

DH R030 and DH R031 and DH R032 and DH R033 and DH R035 and DH R036

### **Limitations on Enrollment**

Current CPR certification for health care provider (American Heart Association) or professional rescuer (American Red Cross)

Proof of freedom from and immunity to communicable diseases

No acrylic or long nails in clinical settings

Current negative TB test or chest x-ray

Physical examination demonstrating general good health

No visible tattoos or visible body piercings except single studs in earlobes

## **Entrance Skills**

### **Entrance Skills**

Patients must have proper working knowledge to safely administer local anesthesia and nitrous oxide.

### **Prerequisite Course Objectives**

DH R020-Explain the pharmacology, physiology, and proper use of local anesthetic agents

DH R020-Explain the anatomy of the trigeminal nerve, physiology of nerve conduction, and how anesthesia works

DH R020-List the armamentarium for local anesthesia injections

DH R020-Demonstrate techniques used in anesthesia injections in dentistry

DH R020-Explain procedures for the prevention of emergencies

DH R020-Describe the management of medical and dental emergencies

DH R020-Manage the administration of nitrous oxide

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### **Entrance Skills**

Students will have the knowledge to distinguish between normal and abnormal oral structures.

### **Prerequisite Course Objectives**

DH R021-Identify and explain the various pathological processes of disease, inflammation, immunology defense, degeneration, neoplasm, developmental disorders, and healing and repairs

DH R021-Recognize abnormalities in the human body with a special emphasis on normal and abnormal conditions in the oral cavity

DH R021-Explain the body processes involved in disease formation and the systems the body employs in its defense

DH R021-Describe the body systems responsible for adaptation, wound healing, and repair

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### Entrance Skills

Students will be able to evaluate medications being taken, what conditions they treat, treatment modification that might be necessary and the potential side effects.

### Prerequisite Course Objectives

DH R022-Identify brand names and generic names of numerous commonly used drugs  
DH R022-Explain the classification of drugs according to origin, physical and chemical properties, and therapeutic effect  
DH R022-Compare and contrast the values of drug alternatives utilized in dentistry  
DH R022-Explain the fundamental principles of drug pathways within the body  
DH R022-Describe commonly used local anesthetics in dental and medical practice  
DH R022-Describe the use of antimicrobials used in dentistry and medicine  
DH R022-Describe the use of sedative hypnotics and tranquilizers in the dental practice  
DH R022-Describe the use of general anesthesia with detailed description of stages of anesthesia  
DH R022-Identify and describe medications for various systemic diseases

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### Entrance Skills

Students will be able to discuss and treatment planning of patient treatment, complete case presentations and explore more advanced instrument procedures.

### Prerequisite Course Objectives

DH R024-Manage dental hygiene treatment planning  
DH R024-Describe instrumentation techniques and instrument selection appropriate for patient treatment  
DH R024-Analyze and describe methods and techniques of plaque control  
DH R024-Describe instrument sharpening techniques  
DH R024-Analyze fluorides and their effects on and use in patient treatment  
DH R024-Interpret pertinent patient treatment sequencing and present findings  
DH R024-Analyze and describe correct radiology techniques used in exposing, developing, mounting, and critiquing radiographs  
DH R024-Describe and assess current clinical issues of concern  
DH R024-Analyze dental hygiene clinical cases and determine patient and clinician needs appropriate for the case

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### Entrance Skills

Students will possess knowledge of the causes of periodontal disease, to distinguish between healthy and unhealthy oral periodontium, and treatment recommendations

### Prerequisite Course Objectives

DH R025-Describe the functions of the periodontium, including the gingiva (attached and unattached), cementum, crevicular fluid, junctional epithelium, periodontal ligament and alveolar bone.  
DH R025-List, describe and differentiate various periodontal diseases in a classification system as established by the American Academy of Periodontology.  
DH R025-Identify periodontal risk factors that affect onset, progression and severity of periodontal diseases  
DH R025-Identify periodontal risk factors that are acquired, environment and genetic.  
DH R025-Evaluate potential periodontal interrelationships to include: stroke, coronary heart disease, respiratory disease, diabetes, preterm low birth weight deliveries and other conditions associated with progression of periodontal disease.  
DH R025-Explain the interplay between periodontal pathogens and the host tissues.  
DH R025-Describe the stages of development bacterial colonization and composition of human supragingival and subgingival biofilm.  
DH R025-Explain microbiologic and immunologic interactions of the host in periodontal disease.  
DH R025-Describe the sequential development of inflammatory periodontal disease.  
DH R025-Define and describe various evaluative methods (probing, clinical attachment levels, bleeding and exudate, mobility, etc.) needed to measure variations from periodontal health.  
DH R025-Recognize the rationale, objectives and therapies involved in the various levels of dental hygiene care (preventive oral prophylaxis, therapeutic root debridement and professional periodontal maintenance).  
DH R025-Explain the role of the re-evaluation appointment in determining the next phase of periodontal treatment.  
DH R025-Describe the components of the re-evaluation appointment.

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### Entrance Skills

Students will be competent with novice instrumentation skills

### Prerequisite Course Objectives

DH R023-Provide beginning treatment of adult and child patients  
DH R023-Demonstrate various clinical procedures utilizing scaling and polishing techniques  
DH R023-Demonstrate extraoral and intraoral inspections, cancer screening, and dental and periodontal charting  
DH R023-Deliver plaque control instruction  
DH R023-Demonstrate and explain fluoride applications

**Prerequisite Course Objectives**

DH R021-Identify and explain the various pathological processes of disease, inflammation, immunology defense, degeneration, neoplasm, developmental disorders, and healing and repairs

DH R021-Recognize abnormalities in the human body with a special emphasis on normal and abnormal conditions in the oral cavity

DH R021-Explain the body processes involved in disease formation and the systems the body employs in its defense

DH R021-Describe the body systems responsible for adaptation, wound healing, and repair

DH R021-Recognize abnormal oral or health related conditions that must be called to the attention of a dentist or those that preclude, or alter, dental hygiene practice

DH R021-Report major disease entities with emphasis on those that occur in the oral cavity

DH R021-Examine oral tissues and recognize a deviation from normal that may be present

DH R022-Identify brand names and generic names of numerous commonly used drugs

DH R022-Explain the classification of drugs according to origin, physical and chemical properties, and therapeutic effect

DH R022-Compare and contrast the values of drug alternatives utilized in dentistry

DH R022-Describe commonly used local anesthetics in dental and medical practice

DH R022-Describe the use of antimicrobials used in dentistry and medicine

DH R022-Describe the use of sedative hypnotics and tranquilizers in the dental practice

DH R022-Identify and describe medications for various systemic diseases

DH R023-Provide beginning treatment of adult and child patients

DH R023-Demonstrate various clinical procedures utilizing scaling and polishing techniques

DH R023-Demonstrate extraoral and intraoral inspections, cancer screening, and dental and periodontal charting

DH R023-Deliver plaque control instruction

DH R023-Demonstrate and explain fluoride applications

DH R024-Describe rationale, method, routine and scientific basis for dental hygiene procedures

DH R024-Describe what emergency situations may arise in a clinical situation and how they may be addressed

DH R024-Manage dental hygiene treatment planning

DH R024-Describe instrumentation techniques and instrument selection appropriate for patient treatment

DH R024-Analyze and describe methods and techniques of plaque control

DH R024-Describe instrument sharpening techniques

DH R024-Analyze fluorides and their effects on and use in patient treatment

DH R024-Interpret pertinent patient treatment sequencing and present findings

DH R024-Analyze and describe correct radiology techniques used in exposing, developing, mounting, and critiquing radiographs

DH R024-Describe and assess current clinical issues of concern

DH R024-Analyze dental hygiene clinical cases and determine patient and clinician needs appropriate for the case

DH R025-List and recognize the clinical, histologic and radiographic features of periodontal health and the varying classifications of gingivitis and periodontitis

DH R025-Describe the functions of the periodontium, including the gingiva (attached and unattached), cementum, crevicular fluid, junctional epithelium, periodontal ligament and alveolar bone.

DH R025-List, describe and differentiate various periodontal diseases in a classification system as established by the American Academy of Periodontology.

**Requisite Justification****Requisite Type**

Prerequisite

**Requisite**

DH R020

**Requisite Description**

Course in a sequence

**Level of Scrutiny/Justification**

Content review

**Requisite Type**

Prerequisite

**Requisite**

DH R021

**Requisite Description**

Course in a sequence

**Level of Scrutiny/Justification**

Content review

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**Requisite Type**

Prerequisite

**Requisite**

DH R022

**Requisite Description**

Course in a sequence

**Level of Scrutiny/Justification**

Content review

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**Requisite Type**

Prerequisite

**Requisite**

DH R023

**Requisite Description**

Course in a sequence

**Level of Scrutiny/Justification**

Content review

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**Requisite Type**

Prerequisite

**Requisite**

DH R025

**Requisite Description**

Course in a sequence

**Level of Scrutiny/Justification**

Content review

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**Requisite Type**

Corequisite

**Requisite**

DH R030

**Requisite Description**

Course in a sequence

**Level of Scrutiny/Justification**

Content review

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**Requisite Type**

Corequisite

**Requisite**

DH R031

**Requisite Description**

Course in a sequence

**Level of Scrutiny/Justification**

Content review

**Requisite Type**

Corequisite

**Requisite**

DH R033

**Requisite Description**

Course in a sequence

**Level of Scrutiny/Justification**

Content review

**Requisite Type**

Corequisite

**Requisite**

DH R035

**Requisite Description**

Course in a sequence

**Level of Scrutiny/Justification**

Content review

**Requisite Type**

Corequisite

**Requisite**

DH R036

**Requisite Description**

Course in a sequence

**Level of Scrutiny/Justification**

Content review

**Student Learning Outcomes (CSLOs)**

**Upon satisfactory completion of the course, students will be able to:**

- |   |   |
|---|---|
| 1 | Demonstrate various clinical procedures utilizing scaling and polishing techniques on more intermediate (moderately periodontally involved) patients. |
| 2 | Correlate gingival markers with existing periodontal disease.   |
| 3 | Correlate radiographic findings with existing periodontal disease.  |

**Course Objectives**

**Upon satisfactory completion of the course, students will be able to:**

- |   |   |
|---|---|
| 1 | Provide treatment for moderately complex adult and pediatric dental hygiene cases.                      |
| 2 | Duplicate various moderately advanced scaling and polishing techniques and fluoride applications        |
| 3 | Provide oral inspections, cancer screening, dental and periodontal charting, and nutritional counseling |
| 4 | Use ultrasonic scaling devices as appropriate   |

- 5 Administer local anesthetic as appropriate
- 6 Perform soft tissue curettage with a maximum of patient comfort and safety
- 7 Use chemotherapeutic agents in the treatment of periodontal disease as appropriate
- 8 Apply periodontal dressings as appropriate
- 9 Perform oral irrigation procedures competently
- 10 Perform periodontal charting on a clinic patient to determine more advanced treatment plans as necessary by degree of patient difficulty

## Course Content

### Lecture/Course Content

1. Incorporating Procedures Learned in Dental Materials, Nutrition in Dentistry, and Clinic II Seminar
2. The Treatment of Simple to Moderately Complex Adult & Child Dental Hygiene Cases
  - a. Assessment
    - i. Medical history taking and updating
    - ii. Vitals
    - iii. Gingival and periodontal assessment
    - iv. Extraoral and intraoral examination
    - v. Fluoride choices and uses
  - b. Diagnosis
    - i. Periodontal case typing
    - ii. Calculus code typing
  - c. Treatment planning
    - i. Selection of appropriate intervention
    - ii. Problem/patient specific treatment plan
  - d. Implementation
    - i. Practical application of principles and concepts of periodontal instrumentation
  - e. Evaluation
    - i. Designing patient appropriate maintenance schedules
    - ii. Designing patient appropriate protocols
3. Begin Use of Skills in the Administration of Local Anesthetic on patients
  - a. Armamentarium
    - i. Syringe
    - ii. Needle
    - iii. Carpule
  - b. Contraindications
    - i. Recognition of contraindications
    - ii. Recognition of treatment modifications
  - c. Management of Medical Emergencies
    - i. Recognition of and response to medical emergencies
4. Incorporation of Procedures Learned in DH 42--Dental Hygiene Clinic Seminar III
  - a. Infection control
    - i. Sterilization
    - ii. Proper hand washing
    - iii. Disinfection
  - b. Instrumentation: principles and concepts
    - i. Patient positioning
    - ii. Operator positioning
    - iii. Modified pen grasp
    - iv. Finger fulcrum/rests
    - v. Stroke activation
5. Ultrasonic Scaling Devices
  - a. Case selection
  - b. Contraindications
  - c. Proper technique
6. Participation in an Externship at Outpatient Dental Clinics under the Supervision of a Dentist/Dental Hygienist



**Laboratory or Activity Content**

1. Incorporating Procedures Learned in Dental Materials, Nutrition in Dentistry, and Clinic II Seminar
2. The Treatment of Simple to Moderately Complex Adult & Child Dental Hygiene Cases
  - a. Assessment
    - i. Medical history taking and updating
    - ii. Vitals
    - iii. Gingival and periodontal assessment
    - iv. Extraoral and intraoral examination
    - v. Fluoride choices and uses
  - b. Diagnosis
    - i. Periodontal case typing
    - ii. Calculus code typing
  - c. Treatment planning
    - i. Selection of appropriate intervention
    - ii. Problem/patient specific treatment plan
  - d. Implementation
    - i. Practical application of principles and concepts of periodontal instrumentation
  - e. Evaluation
    - i. Designing patient appropriate maintenance schedules
    - ii. Designing patient appropriate protocols
3. Begin Use of Skills in the Administration of Local Anesthetic on patients
  - a. Armamentarium
    - i. Syringe
    - ii. Needle
    - iii. Carpule
  - b. Contraindications
    - i. Recognition of contraindications
    - ii. Recognition of treatment modifications
  - c. Management of Medical Emergencies
    - i. Recognition of and response to medical emergencies
4. Incorporation of Procedures Learned in DH 42--Dental Hygiene Clinic Seminar III
  - a. Infection control
    - i. Sterilization
    - ii. Proper hand washing
    - iii. Disinfection
  - b. Instrumentation: principles and concepts
    - i. Patient positioning
    - ii. Operator positioning
    - iii. Modified pen grasp
    - iv. Finger fulcrum/rests
    - v. Stroke activation
5. Ultrasonic Scaling Devices
  - a. Case selection
  - b. Contraindications
  - c. Proper technique
6. Participation in an Externship at Outpatient Dental Clinics under the Supervision of a Dentist/Dental Hygienist

**Methods of Evaluation**

**Which of these methods will students use to demonstrate proficiency in the subject matter of this course? (Check all that apply):**

Problem solving exercises  
 Skills demonstrations  
 Written expression

**Methods of Evaluation may include, but are not limited to, the following typical classroom assessment techniques/required assignments (check as many as are deemed appropriate):**

Clinical demonstration  
 Individual projects  
 Laboratory activities  
 Objective exams

Projects  
Problem-Solving Assignments  
Skills demonstrations  
Skill tests  
Simulations  
Treatment plans

## **Instructional Methodology**

### **Specify the methods of instruction that may be employed in this course**

Clinical demonstrations  
Instructor-guided interpretation and analysis  
Instructor-guided use of technology  
Practica

### **Describe specific examples of the methods the instructor will use:**

Instructor will review proposed treatment plan, need for radiographs, medical history and need for modifications, assist student with appropriate calculus removal, and proper use of dental software systems, entry of proper documentation prior to, during and after treatment of patient.

## **Representative Course Assignments**

### **Writing Assignments**

Short papers related to national board topics may be required for students who repeatedly have failed appointments.

### **Critical Thinking Assignments**

Student will assess the patient to design a treatment plan, determine need for radiographs, appropriate anesthesia if needed, personalized oral hygiene instructions, and post-op instructions at a novice level.

### **Reading Assignments**

1. Students may be required to review material from Periodontal Instrumentation (Pattison)
2. Students may be required to review material from Clinical Practice of the Dental Hygienist (Wilkins)
3. Students may be required to review material from Essentials of Dental Radiography for Dental Assistants and Hygienists (Johnson & Thomson)

### **Skills Demonstrations**

Students will be delivering patient care in a safe manner. Students will demonstrate competence in the use of the ultrasonic scaler and inserts. The students will need to demonstrate the correct selection of ultrasonic inserts for the appropriate treatment plan. Students will demonstrate advanced instrumentation techniques on advanced cases. During this course, students will be able to provide more advanced treatment of adult and child patients, demonstrate various clinical procedures utilizing scaling and polishing techniques, demonstrate extraoral and intraoral inspections, cancer screening, and dental and periodontal charting, deliver plaque control instruction, and demonstrate and explain fluoride applications.

### **Other assignments (if applicable)**

1. Practice of scaling on typodont

**Outside Assignments****District General Education****A. Natural Sciences****B. Social and Behavioral Sciences****C. Humanities****D. Language and Rationality****E. Health and Physical Education/Kinesiology****F. Ethnic Studies/Gender Studies****CSU GE-Breadth****Area A: English Language Communication and Critical Thinking****Area B: Scientific Inquiry and Quantitative Reasoning****Area C: Arts and Humanities****Area D: Social Sciences****Area E: Lifelong Learning and Self-Development****Area F: Ethnic Studies****CSU Graduation Requirement in U.S. History, Constitution and American Ideals:****IGETC****Area 1: English Communication****Area 2A: Mathematical Concepts & Quantitative Reasoning****Area 3: Arts and Humanities****Area 4: Social and Behavioral Sciences****Area 5: Physical and Biological Sciences****Area 6: Languages Other than English (LOTE)****Textbooks and Lab Manuals****Resource Type**

Textbook

**Classic Textbook**

Yes

**Description**Malamed, Stanley F. (2015). *Medical Emergencies in the Dental Office* (7th). St. Louis, Missouri Mosby.**Resource Type**

Textbook

**Description**

Nield-Gehrig, J.S. & Willmann, Donald E. (2017). *Periodotics for the Dental Hygienist* (4th). Philadelphia, PA Wolters Kluwer.

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**Resource Type**

Textbook

**Description**

Demetra Daskaios Logothetis (2017). *Local Anesthesia for the Dental Hygienist* (2nd). St.Louis, Missouri Mosby.

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**Primary Minimum Qualification**

DENTAL TECHNOLOGY

**Additional local certifications required**

All dental hygiene program faculty members must possess a baccalaureate or higher degree in a course related field and must have current knowledge of the specific subjects they are teaching and background in appropriate educational methodology. Dentists or dental hygienists who supervise students' clinical procedures must have qualifications which comply with the state dental or dental hygiene practice act. For this class, an instructor must have a license, such as a license to practice dentistry or dental hygiene, which covers the rendering of dental hygiene treatment and administration of local anesthetic.

**Review and Approval Dates**

**Department Chair**

04/27/2020

**Dean**

04/27/2020

**Technical Review**

05/13/2020

**Curriculum Committee**

05/13/2020

**Curriculum Committee**

12/09/2020

**CCCCO**

MM/DD/YYYY

**Control Number**

CCC000584178

**DOE/accreditation approval date**

MM/DD/YYYY