

DH R033: DENTAL HYGIENE CLINIC SEMINAR II

Originator

aderdiarian

Co-Contributor(s)
Name(s)

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College

Oxnard College

Discipline (CB01A)

DH - Dental Hygiene

Course Number (CB01B)

R033

Course Title (CB02)

Dental Hygiene Clinic Seminar II

Banner/Short Title

DH Clinic Seminar II

Credit Type

Credit

Start Term

Fall 2021

Catalog Course Description

This course expands knowledge of comprehensive dental hygiene care through lecture and group discussions. Didactic material from other courses is reviewed and supplemented. Clinical issues and cases are also covered. Limitations on enrollment: Physical/clinical examination with CBC and urinalysis verifying physical fitness (within the last 12 months); Tuberculosis Mantoux test or chest x-ray; Hepatitis B Vaccine and titer; Titers showing immunity to Rubella, Rubeola, and Varicella; CPR certification.

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

Minimum Contact/In-Class Lecture Hours

35

Maximum Contact/In-Class Lecture Hours

35

Activity

Laboratory

Total in-Class

Total in-Class

Total Minimum Contact/In-Class Hours

35

Total Maximum Contact/In-Class Hours

35

Outside-of-Class

Internship/Cooperative Work Experience

Paid

Unpaid

Total Outside-of-Class

Total Outside-of-Class

Minimum Outside-of-Class Hours

70

Maximum Outside-of-Class Hours

70

Total Student Learning

Total Student Learning

Total Minimum Student Learning Hours

105

Total Maximum Student Learning Hours

105

Minimum Units (CB07)

2

Maximum Units (CB06)

2

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 R034 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

Students must possess a solid foundation in all aspects of the Dental Hygiene Process of Care. Additionally they must have a basic understanding of general and oral pathology, basic principles of pharmacology and the safe administration of local anesthetics.

Prerequisite Course Objectives

DH R020-Explain the pharmacology, physiology, and proper use of local anesthetic agents
 DH R020-Analyze the anatomy of the trigeminal nerve, physiology of nerve conduction, and how anesthesia works
 DH R020-Explain 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-Demonstrate competency in the management of medical and dental emergencies
 DH R020-Demonstrate competency in the application of nitrous oxide
 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-Identify etiologic factors and the signs and symptoms that are associated with diseases

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-Analyze the social and economic significance of disease and disease control
DH R021-Report major disease entities with emphasis on those that occur in the oral cavity
DH R021-Appraise the degenerative and regenerative processes associated with pathogenesis
DH R021-Examine oral tissues and recognize a deviation from normal that may be present
DH R022-Identify the acts and the regulatory agencies within the federal government that affect the use of medications.
DH R022-Select and discuss drug information references available to research information.
DH R022-Identify the format of a prescription and the common abbreviations used.
DH R022-Describe basic mechanisms of drug action, including receptor-mediated and receptor-independent actions, agonists and antagonists and dose-effect relationships.
DH R022-Define the basic principles of pharmacokinetics within the body.
DH R022-Identify factors that influence the pharmacokinetics of drugs.
DH R022-Evaluate therapeutic applications of drugs, including routes of administration and variables that affect drug response.
DH R022-Interpret pharmacologic effects, adverse reactions, contraindications and general methods of toxicity prevention.
DH R022-Research the mechanism and classification of drug interactions.
DH R022-Review the toxicological evaluation of drugs.
DH R022-Identify factors that may alter the effect of a medication.
DH R022-Define ways in which medications are named (brand, generic or chemical) and the significance of each.
DH R022-Analyze the pharmacological effects of each category of drugs as well as their mechanism of action.
DH R022-Describe the adverse reactions, contraindications and drug interactions for each category of drugs.
DH R022-Identify dental considerations and modifications to treatment that might be necessary based on the specific drug category.
DH R022-Identify medications by name (generic and brand) that fall within each of the categories of medications
DH R022-Gain an appreciation for the role of research in evidence-based dental hygiene practice.
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 the signs, symptoms, and treatments of carpal tunnel syndrome and its effects on the practicing dental hygienist
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-Describe sequentially the embryonic and histologic development of the periodontium
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.
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.

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

Requisite Type

Prerequisite

Requisite

DH R022

Requisite Description

Course in a sequence

Level of Scrutiny/Justification

Content review

Requisite Type

Prerequisite

Requisite

DH R023

Requisite Description

Course in a sequence

Level of Scrutiny/Justification

Content review

Requisite Type

Prerequisite

Requisite

DH R024

Requisite Description

Course in a sequence

Level of Scrutiny/Justification

Content review

Requisite Type

Prerequisite

Requisite

DH R025

Requisite Description

Course in a sequence

Level of Scrutiny/Justification

Content review

Requisite Type

Corequisite

Requisite

DH R030

Requisite Description

Course in a sequence

Level of Scrutiny/Justification

Content review

Requisite Type

Corequisite

Requisite

DH R031

Requisite Description

Course in a sequence

Level of Scrutiny/Justification

Content review

Requisite Type

Corequisite

Requisite

DH R032

Requisite Description

Course in a sequence

Level of Scrutiny/Justification

Content review

Requisite Type

Corequisite

Requisite

DH R034

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 | Properly assess and demonstrate an understanding of the elements involved in and the rationale behind specific treatment plans. |
| 2 | Describe oral irrigation procedures and the purpose for its use in dental hygiene treatment. |
| 3 | Evaluate the periodontium and identify conditions that compromise periodontal health and function. |
| 4 | Upon successful completion of DH 33 Clinic Seminar II the student will be able to competently perform any and all phases of the Dental Hygiene Process of Care in all categories of patients ie. age, medically compromised or special needs |

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

- | | |
|----|---|
| 1 | Develop a case presentation |
| 2 | Explain the rationale for soft tissue curettage |
| 3 | Explain oral irrigation procedures and the purpose for its use in dental hygiene treatment |
| 4 | Describe the use of chemotherapeutic agents in the treatment of periodontal disease |
| 5 | Describe the use of ultrasonic scalers |
| 6 | Prepare more advanced treatment plans as necessary by degree of patient difficulty |
| 7 | Prepare for the National Boards |
| 8 | List and identify post-operative instructions for a patient and provide as needed |
| 9 | Describe healing of tissues after periodontal instrumentation |
| 10 | Describe the proper maintenance of dental implants |
| 11 | Assess the elements involved in and rationale behind dental specific treatment plans, especially for patients who present with moderate periodontal involvement |

12	Predict the elements involved in implementing non-surgical periodontal therapy as it applies in a clinical and private practice setting
13	Compare and contrast with peers and faculty the overall issues of dental hygiene practice as it relates to clinical practice and performance in private practice
14	Prepare an oral discussion and typed summary of a literature paper on a selected topic
15	Analyze and interpret the data to formulate a dental hygiene diagnosis
16	Describe medical conditions that require treatment modifications prior to or during dental hygiene treatment
17	Evaluate the periodontium, and identify conditions that compromise periodontal health and function
18	Analyze published reports of oral health and apply this information to the practice of dental hygiene

Course Content

Lecture/Course Content

1. Developing a Case Presentation: Patient description, Chief concern, Medical history, Dental history, Family history, Social history
2. Advanced Treatment Planning: Coordinating complex medical/dental treatment plan.
3. Differences in Periodontal Case Types in the context of the new Periodontal Classification System
4. Ultrasonic automated instrumentation
5. Soft Tissue Curettage
6. Healing of Tissues
7. Chemotherapeutic Agents (after periodontal instrumentation procedures)
8. Reviewing for National Boards
9. Review of the Treatment of Children and Simple Adult Dental Hygiene Cases
 - a. Assessment
 - i. Medical history taking and updating
 - ii. Vitals
 - iii. Gingival and periodontal assessment
 - iv. Extraoral and intraoral examination
 - 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 a patient-appropriate maintenance schedules
 - ii. Designing a patient-appropriate protocols
10. Review of the 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
11. Review of Clinical Procedures
 - a. Infection control
 - i. Sterilization
 - ii. Proper hand washing
 - iii. Disinfection
 - b. Instrumentation: principle and concepts
 - i. Patient positioning
 - ii. Operator positioning
 - iii. Modified pen grasp

- iv. Finger fulcrum/rests
 - v. Strokeactivation
 - vi. Ultrasonic scaling
12. Plaque Control and Home Care Regimens (for periodontally involved patients)
 13. Mock Board
 14. Post-operative Instructions

Laboratory or Activity Content

None

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
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):

Essay exams
Essays
Group projects
Individual projects
Objective exams
Problem-Solving Assignments
Problem-solving exams
Quizzes
Treatment plans

Instructional Methodology

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

Audio-visual presentations
Collaborative group work
Class activities
Class discussions
Case studies
Distance Education
Group discussions
Internet research
Lecture
Small group activities

Describe specific examples of the methods the instructor will use:

Foundational knowledge from the previous courses will be re-enforced and broadened with lectures to assist them in critical thinking and self-assessment. The use of Case Studies will be extensive.

YouTube videos on various aspects of Dental Hygiene care area available for use to reinforce text and lectures. The fact that they are free and available on-demand is perfect. There are videos on virtually every topic.

Representative Course Assignments

Writing Assignments

Synthesis of Case Studies that includes all aspects of patient histories.

Critical Thinking Assignments

Synthesis and explanation of Case Studies relating their knowledge of Pathology, Pharmacology etc. to the safe, effective, and efficient treatment of patients. Students are also asked to write multiple choice test questions based on their Case Studies that will reflect their ability to critically think their way to a correct answer.

Reading Assignments

1. Student will spend a minimum of 2 hours per week outside of the regular class time on assigned reading topics like tissue healing after periodontal treatment
2. Students have assigned reading from several dental hygiene textbooks on topics like infection control

Outside Assignments

Representative Outside Assignments

Students will be expected to be exploring and researching the literature to ensure they understand the concept of Evidence Based Periodontal Treatment.

Articulation

Attach Syllabus

DH33Syll19.doc

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

DescriptionNield-Gehrig, J.S. Willmann, Donald E. (2016). *Foundations of Periodontics for the Dental Hygienist* (4th). Philadelphia, PA Wolters Kluwer.**Description**

Darby's Comprehensive Review of Dental Hygiene (2017): Christine M Blue; 8th Edit. Elsevier

Library Resources**Sufficient Library Resources exist**

Yes

Example of Assignments Requiring Library Resources

Evidence Based DH Treatment assignments.

Distance Education Addendum

Definitions

Distance Education Modalities

- Hybrid (51%–99% online)
- Hybrid (1%–50% online)
- 100% online

Faculty Certifications

Faculty assigned to teach Hybrid or Fully Online sections of this course will receive training in how to satisfy the Federal and state regulations governing regular effective/substantive contact for distance education. The training will include common elements in the district-supported learning management system (LMS), online teaching methods, regular effective/substantive contact, and best practices.

Yes

Faculty assigned to teach Hybrid or Fully Online sections of this course will meet with the EAC Alternate Media Specialist to ensure that the course content meets the required Federal and state accessibility standards for access by students with disabilities. Common areas for discussion include accessibility of PDF files, images, captioning of videos, Power Point presentations, math and scientific notation, and ensuring the use of style mark-up in Word documents.

Yes

Regular Effective/Substantive Contact

Hybrid (1%–50% online) Modality:

Method of Instruction	Document typical activities or assignments for each method of instruction
Other DE (e.g., recorded lectures)	Students are to do all reading assignments prior to viewing recorded lectures evidenced by submitting an outline of the Chapter and answers to review questions. Then and only then will recorded lectures be made available on Canvas. Questions will be submitted to me on Canvas and discussed during video conferences. Edited PowerPoint slides will be posted for instructional guidance

Hybrid (51%–99% online) Modality:

Method of Instruction	Document typical activities or assignments for each method of instruction
Video Conferencing	Video conferences will be utilized to present my introductory lecture for the Chapt. for instructional guidance and later for discussion and clarification. Students come to class with assigned Active Learning Assignments (ALA's) completed for use in collaborative group work and small group activities. Most ALA's are either outlines of the Chapt. or Review Questions from the Chapt. Additionally they are to write quizz questions as the read the assignment.

100% online Modality:

Method of Instruction	Document typical activities or assignments for each method of instruction
Video Conferencing	Video conferences will be utilized to present my introductory lecture for the Chapt. for instructional guidance and later for discussion and clarification. Students come to class with assigned Active Learning Assignments (ALA's) completed for use in collaborative group work and small group activities. Most ALA's are either outlines of the Chapt. or Review Questions from the Chapt. Additionally they are to write quizz questions as the read the assignment.

Examinations

Hybrid (1%–50% online) Modality

Online

Hybrid (51%–99% online) Modality

Online

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

05/07/2020

Dean

05/07/2020

Technical Review

05/13/2020

Curriculum Committee

05/13/2020

Curriculum Committee

12/09/2020

CCCCO

MM/DD/YYYY

Control Number

CCC000584179

DOE/accreditation approval date

MM/DD/YYYY