

DH R040: ADVANCED CLINICAL TOPICS IN DENTAL HYGIENE

Originator

aderdiarian

Co-Contributor(s)
Name(s)

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College

Oxnard College

Discipline (CB01A)

DH - Dental Hygiene

Course Number (CB01B)

R040

Course Title (CB02)

Advanced Clinical Topics in Dental Hygiene

Banner/Short Title

Advanced Clinical Topics in DH

Credit Type

Credit

Start Term

Spring 2021

Catalog Course Description

This course emphasizes advanced dental hygiene skills and procedures; state board patient selection; ways to minimize occupational hazards common to dental practice; and interactional skill development for the dental practice. Limitations on Enrollment: Physical/clinical examination (within the last 12 months); Negative Tuberculosis Mantoux test or chest x-ray; Hepatitis B vaccine and titer; Tetanus vaccine; Titers showing immunity to Rubella, Rubeola, and Varicella; and 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

Minimum Contact/In-Class Lecture Hours

17.5

Maximum Contact/In-Class Lecture Hours

17.5

Activity

Laboratory

Minimum Contact/In-Class Laboratory Hours

52.5

Maximum Contact/In-Class Laboratory Hours

52.5

Total in-Class

Total in-Class

Total Minimum Contact/In-Class Hours

70

Total Maximum Contact/In-Class Hours

70

Outside-of-Class**Internship/Cooperative Work Experience**

Paid

Unpaid

Total Outside-of-Class**Total Outside-of-Class****Minimum Outside-of-Class Hours**

35

Maximum Outside-of-Class Hours

35

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 R030 and DH R031 and DH R032 and DH R033 and DH R034 and DH R035 and DH R036

Corequisites

DH R041 and DH R042 and DH R043 and DH R044 and DH R045

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 have advanced skills in special/geriatric patients.

Prerequisite Course Objectives

DH R030-Compare and contrast patient characteristics, motivation and management of individual patients

DH R030-Analyze how to establish positive interpersonal communication with patients

DH R030-Identify medically compromised patients and special needs patients and apply proper oral hygiene procedures

DH R030-Identify extra-oral risk factors affecting the older adult and their oral health

DH R030-Recognize unusually apprehensive patient and demonstrate how to establish confidence within the patient

DH R030-Assess the older adult's periodontal needs and home care

DH R031-Identify roles and sources of vitamins and minerals that are essential to oral health and general well-being

Entrance Skills

Students must have advanced skills in dental nutritional counseling.

Prerequisite Course Objectives

- DH R031-Compare and contrast factors in the relationship of nutrition and dental health
- DH R031-Analyze the digestive mechanisms
- DH R031-Evaluate the nutritional status of patients
- DH R031-Perform nutrition counseling with dental patients
- DH R031-Evaluate a 3-4 day dietary history of a patient with regard to sugar exposures and nutritional adequacy/quality, and counsel the patient accordingly
- DH R031-Identify disorders relating to inadequate intake or absorption of carbohydrates, essential lipids, protein, vitamins and minerals
- DH R031-Compare and contrast factors in the relationship between nutrition and dental health
- DH R031-Identify key structural features, functions, major metabolic pathways, and nutritional roles of carbohydrates, lipids, and proteins
- DH R031-Identify roles and sources of vitamins and minerals that are essential to oral health and general well-being
- DH R031-List the essential amino acids and explain what makes them "essential"

Entrance Skills

Students must have advanced skill in dental materials.

Prerequisite Course Objectives

- DH R032-Explain and distinguish between the various restorative materials used in dentistry
- DH R032-Assess the physical, electrical, and mechanical properties of materials used in dentistry
- DH R032-Explain the effects the oral environment may have on dental materials, as well as the effect dental materials may have on the oral environment
- DH R032-Explain the role preventive dental materials play in preventing oral diseases
- DH R032-Assess the various types of materials used for esthetic dental restorations
- DH R032-Indicate the significance of accuracy in using impression materials and restorative materials
- DH R032-Create a model cast or die used in dentistry to duplicate accurately the hard and/or soft oral tissues
- DH R032-Explain the legal and ethical ramifications of different levels of treatment

Entrance Skills

Student must have moderate skills in instrumentation and treatment planning.

Prerequisite Course Objectives

- DH R034-Provide treatment for moderately complex adult and pediatric dental hygiene cases.
- DH R034-Duplicate various moderately advanced scaling and polishing techniques and fluoride applications
- DH R034-Provide oral inspections, cancer screening, dental and periodontal charting, and nutritional counseling
- DH R034-Use ultrasonic scaling devices as appropriate
- DH R034-Administer local anesthetic as appropriate
- DH R034-Perform soft tissue curettage with a maximum of patient comfort and safety
- DH R034-Use chemotherapeutic agents in the treatment of periodontal disease as appropriate
- DH R034-Apply periodontal dressings as appropriate
- DH R034-Perform oral irrigation procedures competently
- DH R034-Perform periodontal charting on a clinic patient to determine more advanced treatment plans as necessary by degree of patient difficulty

Entrance Skills

Students must have advanced knowledge of periodontics.

Prerequisite Course Objectives

- DH R035-Provide dental hygiene care for all types of classifications of periodontal diseases including patients who exhibit moderate to severe periodontal disease
- DH R035-Competently evaluate current scientific literature
- DH R035-Utilize problem-solving strategies related to comprehensive patient care and management of patients
- DH R035-List, describe and differentiate various periodontal diseases in a classification system as established by the American Academy of Periodontology.
- DH R035-Identify periodontal risk factors that affect onset, progression and severity of periodontal diseases
- DH R035-Define and describe various evaluative methods (probing, clinical attachment levels, bleeding and exudate, mobility, etc.) needed to measure variations from periodontal health.
- DH R035-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 R035-Determine the patient's use and understanding of preventive (oral self-care) measures and oral health goals.
 DH R035-Recognize the need for medical and/or dental referral when appropriate
 DH R035-Develop individual, evidence-based, comprehensive, sequenced dental hygiene care plans for patients using diagnostic information that incorporates the patient's history, goals, values and motivations, clinical assessment, diagnosis, economics and other dental needs.
 DH R035-Use evidence-based protocols to identify periodontal therapies that will reduce the bacterial load and those that modulate the host response.
 DH R035-Describe the role of occlusal trauma in periodontal disease.
 DH R035-Explain the objectives, rationale, indications, contraindications, and methodology for the most commonly performed periodontal surgical procedures.
 DH R035-Describe the types of dental implants used in dentistry, and describe the procedure for implant placement.
 DH R035-Describe the techniques, instruments and procedures for implant maintenance, including self-care aids for patients with implants.
 DH R035-Explain the role of the re-evaluation appointment in determining the next phase of periodontal treatment.
 DH R035-Describe the components of the re-evaluation appointment.
 DH R035-Discuss the objectives of periodontal maintenance and describe the components of periodontal maintenance.
 DH R035-Describe and demonstrate effective interpersonal relationships and effective oral and written communication skills with patients, colleagues, and other professionals and lay people.
 DH R035-Explain how an evidence-based decision-making approach enhances critical thinking and professional decision-making regarding patient care.

Entrance Skills

Students must display knowledge in case presentations, instrumentation, periodontics, chemotherapeutic agents, local anesthetics, and patient education.

Prerequisite Course Objectives

DH R033-Develop a case presentation
 DH R033-Explain the rationale for soft tissue curettage
 DH R033-Explain oral irrigation procedures and the purpose for its use in dental hygiene treatment
 DH R033-Describe the use of chemotherapeutic agents in the treatment of periodontal disease
 DH R033-Describe the use of ultrasonic scalers
 DH R033-Prepare more advanced treatment plans as necessary by degree of patient difficulty
 DH R033-Prepare for the National Boards
 DH R033-List and identify post-operative instructions for a patient and provide as needed
 DH R033-Describe healing of tissues after periodontal instrumentation
 DH R033-Describe the proper maintenance of dental implants
 DH R033-Assess the elements involved in and rationale behind dental specific treatment plans, especially for patients who present with moderate periodontal involvement
 DH R033-Predict the elements involved in implementing non-surgical periodontal therapy as it applies in a clinical and private practice setting
 DH R033-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
 DH R033-Prepare an oral discussion and typed summary of a literature paper on a selected topic
 DH R033-Analyze and interpret the data to formulate a dental hygiene diagnosis
 DH R033-Describe medical conditions that require treatment modifications prior to or during dental hygiene treatment
 DH R033-Evaluate the periodontium, and identify conditions that compromise periodontal health and function
 DH R033-Analyze published reports of oral health and apply this information to the practice of dental hygiene

Requisite Justification

Requisite Type

Prerequisite

Requisite

DH R030

Requisite Description

Course in a sequence

Level of Scrutiny/Justification

Content review

Requisite Type

Prerequisite

Requisite

DH R031

Requisite Description

Course in a sequence

Level of Scrutiny/Justification

Content review

Requisite Type

Prerequisite

Requisite

DH R032

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

Prerequisite

Requisite

DH R034

Requisite Description

Course in a sequence

Level of Scrutiny/Justification

Content review

Requisite Type

Prerequisite

Requisite

DH R035

Requisite Description

Course in a sequence

Level of Scrutiny/Justification

Content review

Requisite Type

Prerequisite

Requisite

DH R036

Requisite Description

Course in a sequence

Level of Scrutiny/Justification

Content review

Requisite Type

Corequisite

Requisite

DH R041

Requisite Description

Course in a sequence

Level of Scrutiny/Justification

Content review

Requisite Type

Corequisite

Requisite

DH R042

Requisite Description

Course in a sequence

Level of Scrutiny/Justification

Content review

Requisite Type

Corequisite

Requisite

DH R043

Requisite Description

Course in a sequence

Level of Scrutiny/Justification

Content review

Requisite Type

Corequisite

Requisite

DH R044

Requisite Description

Course in a sequence

Level of Scrutiny/Justification

Closely related lecture/laboratory course

Requisite Type

Concurrent

Requisite

DH R045

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 identify the conditions that are the most likely cause of burnished calculus. |
| 2 | List examples of common root morphology problems encountered that make exploration difficult. |
| 3 | List the criteria for selection of an appropriate clinical board patient. |

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

- | | |
|----|--|
| 1 | Illustrate advanced root instrumentation |
| 2 | Illustrate the use of alternative fulcrums and reinforced finger rests |
| 3 | Practice instrumentation utilizing modified periodontal instruments (Mini Five, Curvettes, Langer Curets) |
| 4 | Illustrate the maintenance of dental implants |
| 5 | Illustrate proficiency in placement and removal of periodontal dressings |
| 6 | Recognize the types of suture placement and methods of removal |
| 7 | List examples of common root morphology problems encountered that make exploration difficult |
| 8 | Describe the conditions that most likely cause burnished calculus |
| 9 | Describe the difference between hoes, files, and sickles |
| 10 | Duplicate use of a hoe and file on anterior and posterior teeth of a manikin |
| 11 | List the criteria for selection of an appropriate state board patient |
| 12 | List the criteria for selection of an appropriate clinical board patient by describing reasons for failure to pass the California state board examination. |
| 13 | Describe the most common occupational hazards for dental hygienists |
| 14 | Describe the relationship of operator body positioning, patient body and head positioning, and the reduction of injury to the dental hygienist |
| 15 | Describe the advantages of reinforced scaling |
| 16 | Practice the actions of each reinforcement finger(s) on the instrument |

Course Content**Lecture/Course Content**

1. Advance root instrumentation
2. Alternative fulcrums
3. Reinforced finger rest and scaling
4. Utilization of modified periodontal instruments (Mini Five, Curvettes, Langer Curets)
5. Periodontal dressings
6. Sutures
7. Examples of common root morphology problems encountered that make exploration difficult.
 - a. Review of root morphology and instruments that will enhance detection of calculus.
8. Properly identify the conditions that are the most likely cause of burnished calculus.

- a. Causes, detection, and removal
9. Hoes, files, and sickles
10. California state board exam criteria and patient selection by listing the criteria for selection of an appropriate clinical board patient.
11. Dental hygiene occupational hazards
12. Reduction of injury for the dental hygienist through body positioning
13. Advantages of finger flexing
14. Treatment of patients with moderate to heavy calculus who present with varying degrees of periodontal disease
15. Dental implants
16. Review of root sensitivity causes
17. Instrument grasp
18. Mechanics of the instrumentation stroke
19. Use of ultrasonic instruments
20. Extrinsic stain removal from coronal surfaces

Laboratory or Activity Content

1. Students are required to continually demonstrate an acceptable level of clinical competency while performing dental hygiene techniques on progressively more difficult cases. There are ongoing correction and teaching demonstrations by the supervising instructors to enable the students to learn correct clinical procedures. There will be prescribed number of patients in each case classification that students will be required to complete. Prior to starting regular clinical work, students are required to pass competency exams in which faculty assess teach student's preparedness to begin treating patients. Students are not allowed to begin treating patients until all competency exams are successfully completed (passed).
2. Demonstrating competency in advanced clinical skills will be required to pass this course.
3. Successful completion of 2 Mock Boards with appropriate patient

Methods of Evaluation

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

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
Essays
Group projects
Objective exams
Oral presentations
Projects
Quizzes
Role playing
Skills demonstrations
Skill tests
Treatment plans

Instructional Methodology

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

Computer-aided presentations
Collaborative group work
Clinical demonstrations
Case studies
Guest speakers
Instructor-guided interpretation and analysis
Lecture
Small group activities

Describe specific examples of the methods the instructor will use:

Case studies of different patient scenarios to determine appropriate instruments are given routinely.

Clinical demonstrations of advanced instrumentation skills, laser therapy, nutritional therapy, study models, intraoral cameras, saliva evaluation for caries prevalence, radiology, local anesthesia, and Mock Boards.

Class activities would include collaborative group work constructing mind maps on difficult sections within a chapter.

Individual PowerPoint presentations on assigned case studies.

Guest speakers from local specialty practices, companies and the dental hygiene components.

Instructor guided discussion and use of terminology on Focus Points listed at the end of each chapter in the Darby textbook.

Lecture from both notes and PowerPoints.

Small group activities (breakout sessions) solving given case studies.

Representative Course Assignments

Writing Assignments

1. Written case presentation on the case study assigned by the instructor

Critical Thinking Assignments

1. Determining patient criteria and continuing to develop advanced instrumentation skills in preparation for the Central Regional Dental Testing Service (CRDTS) examination.

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 Theory of Periodontal Instrumentation and Techniques (Carranza)

Skills Demonstrations

1. Mock Boards on 2 qualified CRDTS patients and completion of a Code 4 patient.

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

Description

Nield-Gehrig, Jill S. (2016). *Fundamentals of Periodontal Instrumentation* (Eighth). Wolters Kluwer/Lippincott Williams & Wilkins.

Resource Type

Manual

Description

Central Regional Dental Testing Service (CRDTS) manual (2020).

Library Resources

Assignments requiring library resources

None

Primary Minimum Qualification

DENTAL TECHNOLOGY

Additional local certifications required

All dental hygiene program faculty members must possess a baccalaureate or higher degree in a discipline 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

CCC000584176

DOE/accreditation approval date

MM/DD/YYYY