

DH R030: SPECIAL PATIENTS/GERIATRICS FOR DENTAL HYGIENE

Originator

aderdiarian

Co-Contributor(s)**Name(s)**

Enriquez, Richard (renriquez)

College

Oxnard College

Discipline (CB01A)

DH - Dental Hygiene

Course Number (CB01B)

R030

Course Title (CB02)

Special Patients/Geriatrics for Dental Hygiene

Banner/Short Title

Special Patients/Geriatrics DH

Credit Type

Credit

Start Term

Fall 2021

Catalog Course Description

This course teaches characteristics and alternative management techniques of individual patients with special needs, including providing motivation and honing interpersonal communication for these patients. The treatment of the compromised patient and myofunctional therapy is presented.

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)

C - Clearly 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

Total in-Class

Total in-Class

Total Minimum Contact/In-Class Hours

17.5

Total Maximum Contact/In-Class Hours

17.5

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

52.5

Total Maximum Student Learning Hours

52.5

Minimum Units (CB07)

1

Maximum Units (CB06)

1

Prerequisites

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

Corequisites

DH R031 and DH R032 and DH R033 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 an understanding of Anatomy, Biology, Physiology, Pathology and Local Anesthesia/Nitrous Oxide administration so as to have the ability to relate each of these to specific conditions and diseases that compromise patients health. Student must be able to determine the appropriate local anesthesia and nitrous oxide modifications for geriatric/special needs populations.

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 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 R033

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 | Explain the dental treatment modifications that may be required with medically compromised patients or special-needs patients. |
| 2 | Describe basic principles of geriatric medicine. |
| 3 | Describe basic principles of special needs patient care. |
| 4 | List dental treatment modifications for specific chronic medical conditions. |

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

- | | |
|---|---|
| 1 | Compare and contrast patient characteristics, motivation and management of individual patients |
| 2 | Analyze how to establish positive interpersonal communication with patients |
| 3 | Identify medically compromised patients and special needs patients and apply proper oral hygiene procedures |
| 4 | Identify extra-oral risk factors affecting the older adult and their oral health |
| 5 | Recognize unusually apprehensive patient and demonstrate how to establish confidence within the patient |
| 6 | Assess the older adult's periodontal needs and home care |

Course Content**Lecture/Course Content**

1. Prevention and plaque control
2. The geriatric patient
 - a. Aging in America
 - b. Principles of geriatric medicine
 - c. Medical aspects of oral care for the older person
 - d. Assessment and treatment planning for the older dental patient

3. Special patient management
 - a. Identification
 - b. Highly apprehensive patients
 - c. Identification of special patients
 - d. Physical evaluation and risk assessment
4. Infective endocarditis
5. Cardiac conditions associated with endocarditis
6. Hypertension
7. Ischemic heart disease
8. Cardiac arrhythmias
9. Congestive heart failure
10. Pulmonary disease
11. Chronic renal failure and dialysis
12. Liver disease
13. Gastrointestinal disease
14. Sexually transmitted diseases
15. AIDS and related conditions
16. Diabetes
17. Adrenal insufficiency
18. Thyroid disease
19. Pregnancy and breast-feeding
20. Allergy
21. Bleeding disorders
22. Disorders of red and white blood cells
23. Cancer
24. Neurological disorders
25. Behavioral and psychiatric disorders
26. Arthritic diseases
27. Organ transplantation
28. Mental retardation and Down's syndrome
29. Seizure disorders
30. Care of disabilities and bedridden patients
31. Diabetic patients
32. Blood dyscrasias
33. Oncology
34. Cardiovascular disease
35. Premedication patients
36. Asthma and upper respiratory diseases
37. Pre-adolescent to postmenopausal patients
38. Eating disorders

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):

Essays
Group projects
Individual projects
Objective exams
Oral presentations
Problem-solving exams
Quizzes

Written creation (poem, screenplay, song)

Instructional Methodology

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

Audio-visual presentations
Collaborative group work
Class discussions
Case studies
Distance Education
Group discussions
Instructor-guided interpretation and analysis
Internet research
Lecture

Describe specific examples of the methods the instructor will use:

1. Introductory lecture with the purpose of providing guidance in approaching Chapt. content.
2. Providing Instructor-guided analysis of Case studies.

Representative Course Assignments

Writing Assignments

1. Written assignments include essay exam(s) and oral reports on special patient and geriatric patient management topics discussed in lecture

Critical Thinking Assignments

1. Students will write Case Studies and provide their analysis of the Case Studies.
2. Students will write short papers on the effects of specific diseases on other organ systems ie. How certain cardiovascular diseases affect the respiratory system.

Reading Assignments

1. Students will spend a minimum of 2 hours per week outside of class doing independent reading of assigned texts and studying professional journals, for example The Journal of the American Dental Association, and related books

Outside Assignments

Representative Outside Assignments

Students are expected to do preparatory work in order to do their presentations before the class. They are permitted to reference any and all resources.

Articulation

Attach Syllabus

DH30Sylla19.docx

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

Little, James and Falace, D (2018). *Dental Management of the Medically Compromised Patient* (9th Edit.). St. Paul, MN Elsevier Health Science. 9780323080

Library Resources

Sufficient Library Resources exist

Yes

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.

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.

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.

Examinations

Hybrid (1%–50% online) Modality

Online

Hybrid (51%–99% online) Modality

Online

Primary Minimum Qualification

DENTAL TECHNOLOGY

Additional local certifications required

Dental Hygiene faculty members must comply with the requirements set by the Commission on Dental Accreditation (CODA). CODA requires that program faculty member providing didactic instruction must have earned at least a baccalaureate degree in a discipline-related field. All dental hygiene faculty members must have current knowledge of the specific subjects they are teaching and documented background in educational methodology consistent with their teaching assignments. Dentists and dental hygienists who supervise students' clinical procedures should have qualifications which comply with the state dental or dental hygiene act. Individuals who teach and supervise dental hygiene students in clinical enrichment experiences should have qualifications comparable to faculty who teach in the dental hygiene clinic and are familiar with the program's objectives, content, instructional methods and evaluation procedures.

Review and Approval Dates

Department Chair

04/28/2020

Dean

05/07/2020

Technical Review

05/13/2020

Curriculum Committee

05/13/2020

DTRW-I

02/10/2021

Curriculum Committee

12/09/2020

Board

03/09/2021

CCCCO

MM/DD/YYYY

Control Number

CCC000584182

DOE/accreditation approval date

MM/DD/YYYY