

DH R023: DENTAL HYGIENE CLINICAL PRACTICE I

Originator
mnewville

College

Oxnard College

Discipline (CB01A)

DH - Dental Hygiene

Course Number (CB01B)

R023

Course Title (CB02)

Dental Hygiene Clinical Practice I

Banner/Short Title

DH Clinical Practice I

Credit Type

Credit

Start Term

Fall 2020

Catalog Course Description

This course provides beginning clinical experience in the treatment of adult and child patients. Various clinical procedures utilizing scaling and polishing techniques, extraoral and intraoral inspections, cancer screening, dental and periodontal charting, plaque control instructions and topical fluoride application will be put into supervised practice. Limitation on Enrollment: Physical/clinical examination (within the last year); negative Tuberculosis Mantoux test or chest x-ray; Hepatitis B vaccine and titer; Tetanus vaccine; titers showing immunity to Rubella, Rubeola and Varicella; CPR certification.

Additional Catalog Notes

There is a materials fee for this course to cover more advanced armamentarium.

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?

Yes

Fee Amount

\$1,800

What personal property or material does the student need that the fee pays for?

Ultrasonic unit and inserts, additional periodontal scalers, dental mirrors, and probes.

Identify a specific course objective that cannot be met but for the use of the materials at issue.

- A. Demonstrate various clinical procedures utilizing scaling and polishing techniques
- B. Demonstrate dental and periodontal charting

Describe how the material has continuing value outside the classroom.

The student will keep these instruments and use during employment after graduation.

Is the amount of materials the students must supply, or the amount that they receive in exchange for the fee that is charged, consistent with the amount of material necessary to meet the required objectives of the course?

Yes

If students pay a fee rather than furnishing their own materials, why do they have to pay a fee rather than supply the materials themselves? Is the district/college the only source of the materials? If not, is there a health or safety reason for the district/college to supply the materials? If not, will the district/college supply the materials more cheaply than they can be obtained elsewhere, AND at the district's/college's actual cost?

We negotiate student pricing with various vendors. The student would be unable to secure the discounted pricing individually. The purchases are made using the attending dentist's license, as it falls under the purchasing guidelines of medical/dental equipment.

Specify the month and year in which the fee amount, or list of material provided, was reviewed by the host department to ensure that the preceding standards continue to be met.

9/3/19

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**

157.5

Maximum Contact/In-Class Laboratory Hours

157.5

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

157.5

Total Maximum Contact/In-Class Hours

157.5

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**

157.5

Total Maximum Student Learning Hours

157.5

Minimum Units (CB07)

3

Maximum Units (CB06)

3

Prerequisites

DH R010, DH R011, DH R012, DH R013, DH R014, and DH R015

Corequisites

DH R020, DH R021, DH R022, DH R024, and DH R025

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

Student must have a clinical understanding of oral structures and be able to determine any variations from normal.

Prerequisite Course Objectives

DH R010-Recognize normal oral structures
DH R010-Define the terms used in dental anatomy nomenclature
DH R010-Describe the arrangement of the teeth as defined in arches, quadrants, and sextants
DH R010-Identify and describe the characteristics of ideal occlusion and the three occlusal classifications
DH R010-Demonstrate an understanding of the meaning of overjet, overbite, crossbite, and open bite
DH R010-Recognize dental anomalies
DH R010-Recognize and describe the components of the oral cavity
DH R010-Explain oral anatomy relative to proper dental hygiene procedures
DH R010-Name and number individual teeth using the Universal System, the Palmer Notation System, and the FDI System
DH R010-Identify the differences between primary dentition, secondary dentition, and mixed dentition

Entrance Skills

Student needs to be able to expose and interpret radiographs.

Prerequisite Course Objectives

DH R011-Follow the rules of radiation safety for the protection of both patient and operator
DH R011-Explain the characteristics of radiation, physics, ionization, the electromagnetic spectrum, and the association of x-rays with matter
DH R011-Identify the components of x-ray beams
DH R011-Identify the components of the x-ray machine and their individual functions
DH R011-Describe the technical aspects of radiations production and the effects of adjusting the current voltage, and/or exposure time in the production of quality dental radiographs
DH R011-Identify the parts of the dental films packet and correctly manipulate it
DH R011-Use the different sizes and types of dental-x-ray film, and explain their individual uses
DH R011-Use the dark room facilities and automatic processors in the development of dental x-ray film
DH R011-Utilize different position indicating devices (PIDSS) when taking intraoral dental x-rays, using both of the paralleling techniques
DH R011-Identify and correct errors in film placement, using the rules of shadow casting and the inverse square law
DH R011-Manage the taking of diagnostic dental x-rays
DH R011-Identify anatomical landmarks, anomalies, restorations, caries, periapical lesions, and other possible pathological defects in a formal written critique of each full mouth survey of radiographs

Entrance Skills

Student will be able to assess patient oral health needs and design a personalized oral hygiene regimen.

Prerequisite Course Objectives

DH R013-Prepare personalized chairside aids
DH R013-Describe how to plan, implement, and evaluate individualized oral hygiene care
DH R013-Define the concept of preventive dentistry
DH R013-Explain toothbrush uses and tooth-brushing techniques
DH R013-Explain the use of auxiliary aids to maintain good oral hygiene
DH R013-Describe plaque and its relationship to periodontal disease and caries
DH R013-Evaluate and use selected indices
DH R013-Describe the uses of different kinds of fluorides and their effects on teeth
DH R013-Analyze human behavior and motivation
DH R013-Define the objectives of patient health education
DH R013-Describe plaque control methods adjusted for different types of patients
DH R013-Adapt proper tooth brushing procedures to specific patients
DH R013-Identify and explain the use of all auxiliary aids during patient education
DH R013-Describe the etiology of periodontal disease and caries

Entrance Skills

Student must have a firm understanding of head and neck anatomy in order to detect any deviations from normal and to incorporate this knowledge into safely administering local anesthesia injections.

Prerequisite Course Objectives

DH R012-Identify the various openings, foramina, and canals located within the skull
 DH R012-Describe and locate various parts and landmarks of both the maxilla and mandible
 DH R012-Define the terms, nose, nasal cavity, nasal epithelium, and paranasal sinuses and understand the anatomy of those structures
 DH R012-Describe the functions of the nasal cavity, nasal epithelium, and paranasal sinuses
 DH R012-Describe the anatomical relationship of the maxillary sinus and maxillary teeth and the relationship of these structures with regard to infections of either one
 DH R012-Describe the origin, insertion, action and nerve and blood supply of the muscles of mastication
 DH R012-Categorize the muscles of mastication according to their role in referred pain to various areas, especially the temporomandibular joint (TMJ) in regards to elevation, depression, protrusion, retrusion, and lateral excursion
 DH R012-Describe the functions of the sternocleidomastoid and trapezius muscles and their role in referred pain to various areas, especially the TMJ
 DH R012-Identify the structure and describe the movement of the TMJ
 DH R012-Discuss the problems associated with the TMJ
 DH R012-Name the various groupings or locations of the muscles of facial expression of their nerve supply
 DH R012-Name and identify the muscles surrounding the mouth
 DH R012-Describe the origins, insertions, actions, and nerve supply of the muscles of the soft palate, pharynx, and the interrelationship of all these muscles in chewing, swallowing, and speech
 DH R012-Identify blood supply and venous drainage to all areas of the oral cavity including all the teeth
 DH R012-Name and locate the major and minor salivary glands and classify each of the glands according to its response
 DH R012-Name the specific branches of the trigeminal nerve and which areas of the face, teeth and oral cavity each supplies
 DH R012-Describe the major groups of lymph nodes that drain the teeth and oral cavity
 DH R012-Define primary, secondary, and tertiary lymph node involvement as it relates to infections and cancer
 DH R012-Identify the spread of infection in facial spaces

Entrance Skills

Student will be able to transfer the knowledge learned from lecture such as infection control, sterilization, chart documentation, reviewing patient health and dental history, instrumentation, cancer screening and fluoride/varnish application to the clinical setting.

Prerequisite Course Objectives

DH R014-Explain the theory of disease transmission and the necessity for asepsis in dentistry
 DH R014-Identify precautionary measures that must be taken by dental personnel to prevent disease transfer from patient to patient, patient to clinician, and clinician to patient
 DH R014-Differentiate between and define sanitation, disinfection, and sterilization
 DH R014-Identify the major sources of contamination in the dental office and describe effective methods of controlling contamination or eliminating it from each source
 DH R014-Discuss five accepted methods of instrument sterilization and identify the advantages and disadvantages of each
 DH R014-Discuss indications for the use of gloves, safety glasses and face masks
 DH R014-Identify operator equipment and explain how each item operates and its purpose
 DH R014-State the rationale for combining questionnaire and interview techniques to obtain the necessary patient information
 DH R014-List the components of a comprehensive health history and explain the relevance of each
 DH R014-Identify specific conditions and/or responses that indicate the need for antibiotic premedication, sedation, change in medication, special appointment planning, additional laboratory studies and special precautions to prevent disease transmission and allergic reactions
 DH R014-Identify responses that necessitate consultation with the dentist and/or physician
 DH R014-List history update question to be asked at recall appointments
 DH R014-State the purposes and advantages of performing a complete general and oral examination for each patient
 DH R014-Identify the characteristics to observe in assessing a patient's general appearance and state why they may be significant to treatment
 DH R014-Discuss the role dentistry plays in identifying and monitoring hypertension
 DH R014-Describe extraoral and intraoral examinations
 DH R014-Given an illustration of an abnormal lesion, describe its location in the mouth, size and clinical characteristics using medical descriptions of the type of lesion represented
 DH R014-Identify the importance of accurate oral inspection
 DH R014-Define the correct grasp and fulcrum of dental instruments
 DH R014-Define importance of detection of periodontal pockets
 DH R014-Define the objectives of using scaling instruments in the removal of tooth deposits
 DH R014-Describe the use of air in the detection and removal of hard deposits
 DH R014-Describe the correct use of scalers, universal curets, Gracey curets, hoes, and files
 DH R014-Describe correct polishing procedures
 DH R014-Describe the care of hypersensitive teeth
 DH R014-Identify different types of fluoride applications and patient evaluation
 DH R014-List reasons for the use of sharp scaling instruments

Entrance Skills

Students will be able to incorporate the information from lecture to the clinical setting.

Prerequisite Course Objectives

- DH R015-Use proper sterilizing and sanitizing procedures in clinic, and maintain the chain of asepsis
- DH R015-Correctly operate and maintain the dental unit
- DH R015-Describe and take comprehensive medical, dental, and personal histories
- DH R015-Perform oral examination procedures utilizing a prescribed sequence
- DH R015-Identify plaque and calculus
- DH R015-Chart plaque and gingival indices
- DH R015-Apply the correct procedures for retraction, direct and indirect vision, illumination, and transillumination of the mouth mirror
- DH R015-Use the correct grasp and fulcrum of dental instruments
- DH R015-Chart both restorative and periodontal charts
- DH R015-Locate, clinically, all hard deposits supragingival and subgingival
- DH R015-Remove deposits using the prescribed scaling instruments
- DH R015-Use air in the detection and removal of deposits
- DH R015-Perform correct polishing procedures
- DH R015-Use air in the detection and removal of soft deposits including plaque and stain
- DH R015-Explain different types of fluoride applications and their effects on oral tissues

Requisite Justification

Requisite Type

Prerequisite

Requisite

DH R010

Requisite Description

Course in a sequence

Level of Scrutiny/Justification

Content review

Requisite Type

Prerequisite

Requisite

DH R011

Requisite Description

Course in a sequence

Level of Scrutiny/Justification

Content review

Requisite Type

Prerequisite

Requisite

DH R012

Requisite Description

Course in a sequence

Level of Scrutiny/Justification

Content review

Requisite Type

Prerequisite

Requisite

DH R013

Requisite Description

Course in a sequence

Level of Scrutiny/Justification

Content review

Requisite Type

Prerequisite

Requisite

DH R014

Requisite Description

Course in a sequence

Level of Scrutiny/Justification

Content review

Requisite Type

Prerequisite

Requisite

DH R015

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 clinical competence at a novice level. |
| 2 | Demonstrate proper patient management at a novice level. |
| 3 | Demonstrate professional practice at a novice level. |
| 4 | Demonstrate ethical practice at a novice level. |

Course Objectives

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

- | | |
|---|--|
| 1 | Provide beginning treatment of adult and child patients |
| 2 | Demonstrate various clinical procedures utilizing scaling and polishing techniques |
| 3 | Demonstrate extraoral and intraoral inspections, cancer screening, and dental and periodontal charting |
| 4 | Deliver plaque control instruction |
| 5 | Demonstrate and explain fluoride applications |

Course Content

Lecture/Course Content

1. 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 patient appropriate maintenance schedules
 - ii. Designing patient appropriate protocols
2. 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
3. Incorporation of Procedures Learned in DH R015 – Introduction to Preclinic
 - 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. Stroke activation

Laboratory or Activity Content

1. 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 patient appropriate maintenance schedules
 - ii. Designing patient appropriate protocols

2. 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
3. Incorporation of Procedures Learned in DH R015 – Introduction to Preclinic
 - 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. Stroke activation

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

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

Laboratory activities

Objective exams

Projects

Problem-Solving Assignments

Skills demonstrations

Skill tests

Treatment plans

Instructional Methodology

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

Clinical demonstrations

Case studies

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

None

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.

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 Dental Radiology: Principle and Techniques (Harring and Howerton)

Skills Demonstrations

1. Students will be delivering patient care in a safe manner.
2. Students will demonstrate competence in the use of the ultrasonic scaler and inserts.
3. Students will need to demonstrate the correct selection of ultrasonic inserts for the appropriate treatment plan.
4. 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

Representative Outside Assignments

None

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****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. (2017). *Fundamentals of Periodontal Instrumentation* (8th). Baltimore, MD Lippincott Williams & Wilkins. 9781609133**Resource Type**

Other Instructional Materials

Description

Typodonts for practicing scaling procedures.

Library Resources

Assignments requiring library resources

None

Sufficient Library Resources exist

Yes

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

05/06/2020

Dean

05/06/2020

Technical Review

5/13/2020

Curriculum Committee

5/13/2020

Curriculum Committee

8/26/2020

CCCCO

MM/DD/YYYY

Control Number

CCC000584183

DOE/accreditation approval date

MM/DD/YYYY