

DH R001: PRE-DENTAL HYGIENE

Originator

aderdiarian

Co-Contributor(s)
Name(s)

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College

Oxnard College

Discipline (CB01A)

DH - Dental Hygiene

Course Number (CB01B)

R001

Course Title (CB02)

Pre-Dental Hygiene

Banner/Short Title

Pre-Dental Hygiene

Credit Type

Credit

Start Term

Spring 2021

Catalog Course Description

This course is an introduction to the field of dentistry with a specific focus on the basics of dental hygiene. Emphasis will be placed on dental terminology, communication, critical thinking skills, along with some of the basic clinical techniques required for the practice of dental hygiene.

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)

2 - Not 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

Faculty notes on field trips; include possible destinations or other pertinent information

Observation of practicing Registered Dental Hygienists in the field

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

Entrance Skills**Entrance Skills**

Students should have taken all biological prerequisites ie Anatomy, Biology, Physiology, and Microbiology.

Student Learning Outcomes (CSLOs)

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

- | | |
|---|--|
| 1 | Define core terminology related to dentistry. |
| 2 | Describe differences among the various types of teeth based on morphology. |
| 3 | Explain the concept of standard precautions. |
| 4 | List the components of the Dental Hygiene Process of Care. |

Course Objectives

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

- | | |
|---|--|
| 1 | Correctly define and use a variety of different dental terminology |
| 2 | Describe and duplicate appropriate handwashing technique |
| 3 | Explain the use of fluorides, disclosing agents, and sealants in the dental practice |
| 4 | Practice the proper set-up and break-down of a dental operator |
| 5 | Correctly employ the use of personal protective equipment |
| 6 | Practice the basic techniques of infection control in the dental practice |
| 7 | Practice the principles of vital taking and recording |
| 8 | Employ appropriate techniques for sterilization of dental instruments |

- 9 List the types of tooth numbering and employ the principles
- 10 Identify basic head and neck anatomy
- 11 Duplicate the proper mounting of dental radiographs
- 12 Identify basic radiographic landmarks
- 13 Discuss the basic differences between a dental assistant, dental hygienist, dentist, and a specialist

Course Content

Lecture/Course Content

1. Introduction to Dental Terminology
 - a. Locate the Dental Word
 - b. Pronounce the Dental Word
 - c. Analyze the Structure of the Dental Word
 - d. Define the Meaning of the Dental Word
 - e. Use the Dental Word
2. Anatomy and Oral Structures
 - a. Anatomy of the Skull
 - b. Anatomical Features of the Skull
 - c. Landmarks and Features of the Mandible
 - d. Muscles of Mastication
 - e. Trigeminal Nerve Location and Functions
 - f. Blood Supply in the Cranium
 - g. Locations and Purposes of the Salivary Glands
 - h. Functions and Agents of the Lymphatic System
 - i. Important Oral Cavity Structures
3. Tooth Origin and Formation
 - a. Classification of the Human Dentition
 - b. Histological Stages of Tooth Development
 - c. Tissue Structure of the Teeth
 - d. Tissue Composition of the Periodontium
 - e. Odontology
 - f. Tooth Surfaces
4. Practice and Facility Setups
 - a. Dental Professionals
 - b. Dental Hand Instruments
 - c. Rotary Dental Instruments
 - d. Basic Dental Facility Equipment
5. Infection Control
 - a. Disease Control
 - b. Causes of Disease and Infection
 - c. Port of Entry for Disease
 - d. Immunity Factors
 - e. Disease Prevention
 - f. Agencies Concerned with Disease Control
6. Examination and Prevention
 - a. Diseases Associate with Teeth
 - b. Diseases Associated with Oral Tissues
 - c. Diseases Associated with Head Structures
 - d. Dental Prophylaxis
 - e. Alginate Impressions
 - f. Charting Methods
 - g. Home Preventive Techniques
 - h. Dental Facility Preventive Practices
7. Radiography
 - a. Definition and Production of X-rays
 - b. Properties of Roentgen Rays

- c. Radiation Protection
- d. Composition, Types, and Qualities of Dental Radiographs
- e. Techniques for Exposure of Radiographs
- f. Radiographic Film Processing
- g. Mounting Radiographs
- h. Assorted Radiographic Errors
8. Tooth Restorations
 - a. Patient Preparation and Procedure Area
 - b. Isolation of the Operative Site
 - c. Preparation of the Restorative Site
 - d. Cements, Liners, and Base Materials
 - e. Restorative Materials
 - f. Finishing Methods
9. Prosthodontics
 - a. Divisions in the Prosthodontic Field
 - b. Types and Characteristics of Prosthodontic Materials
 - c. Terms Related to Components of Removable Dental Prosthesis
 - d. Procedure Methods Employed in Prosthodontic Practice
10. Endodontics
 - a. Science and Practice of Endodontic Dentistry
 - b. Diagnostic Procedures to Determine Pulpal Conditions
 - c. Endodontic Treatment Procedures
 - d. Endodontic Treatment Equipment and Materials
 - e. Surgical Endodontic Treatments
 - f. Endodontic Treatment of Traumatized Teeth
 - g. Tooth Replantation Procedures
11. Oral and Maxillofacial Surgery
 - a. Duties and Functions of an Oral and Maxillofacial Surgeon
 - b. Instrumentation Related to Oral Surgery
 - c. Surgical Procedures Involved in Exodontia
 - d. Procedures Involved in Soft Tissue Surgery
 - e. Procedures Involved in Minor Bone Surgery
 - f. Surgical Procedures Involved in Fracture Repair
 - g. Procedures Involved in Maxillofacial Surgery
 - h. Surgical Procedures Involved in Implantology
12. Orthodontics
 - a. Purpose of Orthodontic Practice and Malocclusion Classification
 - b. Types and Methods of Orthodontic Treatment
 - c. Requirements for Diagnosis and Treatment Planning for Malocclusion
 - d. Types and Purposes of Headgear and Traction Devices
 - e. Assorted and Specialized Appliances and Retainers
 - f. Instrumentation for the Orthodontic Practice
13. Periodontology
 - a. Anatomy of the Periodontium
 - b. Etiology and Classification of Periodontal Diseases
 - c. Measurement and Recording of Periodontal Diseases
 - d. Periodontal Treatment Methods
 - e. Periodontal Involvement with Dental Implants
 - f. Instrumentation for Periodontics
14. Pediatric Dentistry
 - a. Scope of Pediatric Dentistry
 - b. Development and Growth Concerns of the Pediatric Dentition
 - c. Maintenance and Preservation of the Pediatric Dentition
 - d. Restorative Dental Care for the Primary Dentition
 - e. Control and Sedation of the Child Patient
 - f. Treatment for Trauma and Abuse
 - g. Miscellaneous Child Health Conditions
15. Dental Laboratory Materials

- a. Impression Materials Used in Dental Laboratory Procedures
 - b. Gypsum Materials Used in Dental Laboratory Procedures
 - c. Wax Materials Used in Dental Laboratory Procedures
 - d. Dental Polymer Materials Used in Dental Laboratory Procedures
 - e. Precious and Base Metals Used in Dental Laboratory Procedures
 - f. Abrasive and Polishing Materials Used in Dental Laboratory Procedures
 - g. Cement Materials Used in Dental Laboratory Procedures
 - h. Characteristics of Dental Laboratory Procedures
16. Dental Laboratory Procedures
- a. Range and Scope of the Dental Laboratory
 - b. Dental Laboratory Equipment
 - c. Denture Construction Laboratory Procedures
 - d. Removable Partial Dental Construction Laboratory Procedures
 - e. Fixed Prosthodontic Dental Laboratory Procedures
 - f. Miscellaneous Dental Laboratory Procedures
17. Pharmacology
- a. Pharmacology as the Science of Drugs
 - b. Drug Interactions with Body Functions
 - c. Drug Forms and Methods of Distribution
 - d. Routes for Drug Administration
 - e. Drug Prescription Content
 - f. Classification and Types of Drugs
18. Emergency Care
- a. Emergency Prevention Techniques
 - b. Emergency Prevention Equipment and Materials
 - c. Airway Obstruction and CPR Protocol
 - d. Classifications of Shock
 - e. Common Medical Medical Emergencies
 - f. Common Dental Emergencies
19. Business Procedures
- a. Office Communication Procedures
 - b. Appointment Control
 - c. Patient Records and Filing Procedures
 - d. Business Correspondence
 - e. Dental Insurance Terms
 - f. Financial Disbursement and Banking
 - g. Inventory Control
 - h. Legal and Ethical Terms
20. Aseptic Technique
- a. Infection Control
 - b. Sterilization
 - c. Sanitation
 - d. Handwashing
21. Dental Operatory Equipment
- a. Dental Chair
 - b. Viewing Box
 - c. Instrument Tray
 - d. Operatory Chair
 - e. Assistant Chair

Laboratory or Activity Content

Work with typodonts as part of Dental Anatomy identification of teeth.

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):

Clinical demonstration
 Essay exams
 Essays
 Objective exams
 Projects
 Problem-Solving Assignments
 Problem-solving exams
 Quizzes
 Reports/papers
 Research papers
 Skills demonstrations
 Skill tests

Instructional Methodology

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

Audio-visual presentations
 Clinical demonstrations
 Class discussions
 Case studies
 Distance Education
 Demonstrations
 Field trips
 Instructor-guided interpretation and analysis
 Instructor-guided use of technology
 Lecture
 Practica

Describe specific examples of the methods the instructor will use:

Lecture including PowerPoint slides where appropriate ie. Anatomy, Radiography, Oral Pathology, and Oral Anatomy. Demonstration of Local Anesthetic armamentarium.

Representative Course Assignments

Writing Assignments

1. Written assignments including short answer homework assignments on topics such as the role of the dental hygienist in the field of dentistry

Critical Thinking Assignments

After lectures students are to answer questions that demonstrate comprehension of content across other courses.

Reading Assignments

1. Students will spend a minimum of 2 hours per week outside of the regular class time doing independent reading and studying from the assigned text and handouts on topics like dental anatomy

Other assignments (if applicable)

1. Observation of dental hygienists in private practice

Outside Assignments

Representative Outside Assignments

1. Observation of dental hygienists in private practice

Articulation

Attach Syllabus

PreDSyll2020.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

Description

Dofka, Charline M (2012). *Dental Terminology* (3rd). New York Delmar.

Resource Type

Textbook

Description

Oxnard College (2020). *Oxnard College Dental Hygiene Manual*. Oxnard.

Resource Type

Other Instructional Materials

Description

Typodonts, dental instruments, and dental equipment for physical demonstrations.

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
Asynchronous Dialog (e.g., discussion board)	Regular use of asynchronous discussion boards encourages various types of interaction and critical thinking skills among all course participants. Questions and topics posed will allow students to discuss, compare and contrast, identify, and analyze elements of the course outcomes. Students will be required to respond to one another with substantive comments with the intent of creating a dialog. Other discussion boards may be used for Q&A and general class discussion by students and instructor to facilitate student success and strengthen student learning outcomes.
E-mail	E-mail, class announcements and various learning management system tools such as "Message Students Who" and "Assignment Comments", will be used to regularly communicate with all students on matters such as clarification of class content, reminders of upcoming assignments and/or course responsibilities, to provide prompt feedback to students on coursework to facilitate student learning outcomes, or to increase the role of an individual educator in the academic lives of a student. Students will be given multiple ways to email instructor through both the learning management system inbox and faculty provided email accounts.
Face to Face (by student request; cannot be required)	The instructor will hold weekly, scheduled office hours either in person or via-web conferencing, for students to be able to meet and discuss course materials or individual progress. Students can request additional in-person or web conferencing meetings with faculty member as needed. Faculty may encourage online students to form "study groups" in person or online.

Other DE (e.g., recorded lectures)	Faculty will use a variety of ADA compliant tools and media integrated within the learning management system to help students reach SLO competency. Tools may include: <ul style="list-style-type: none"> • Recorded Lectures, Narrated Slides, Screencasts • Instructor created content • OC Online Library Resources • Canvas Peer Review Tool • Canvas Student Groups (Assignments, Discussions) • 3rd Party (Publisher) Tools (MyOpenMath) • Websites and Blogs • Multimedia (YouTube, Films on Demand, 3CMedia, Khan Academy, etc.)
Synchronous Dialog (e.g., online chat)	Instructor will provide a set time each week where they will be available for synchronous chat and be available in the discussion board and can answer questions in live time.
Video Conferencing	Video tools such as ConferZoom can be used to provide live synchronous or asynchronous sessions with students. ADA compliance will be upheld with Closed Captioning during the session or of the recorded session. Recordings of all live sessions will be made available within the LMS. Video Conferences will be used to facilitate SLOs and student-to-student group meetings will also be encouraged.
Telephone	Students can request for instructor to call or vice versa in order to answer one-on-one questions about course material or student progress.
Hybrid (51%–99% online) Modality:	
Method of Instruction	Document typical activities or assignments for each method of instruction
Asynchronous Dialog (e.g., discussion board)	Regular use of asynchronous discussion boards encourages various types of interaction and critical thinking skills among all course participants. Questions and topics posed will allow students to discuss, compare and contrast, identify, and analyze elements of the course outcomes. Students will be required to respond to one another with substantive comments with the intent of creating a dialog. Other discussion boards may be used for Q&A and general class discussion by students and instructor to facilitate student success and strengthen student learning outcomes.
E-mail	E-mail, class announcements and various learning management system tools such as “Message Students Who” and “Assignment Comments”, will be used to regularly communicate with all students on matters such as clarification of class content, reminders of upcoming assignments and/or course responsibilities, to provide prompt feedback to students on coursework to facilitate student learning outcomes, or to increase the role of an individual educator in the academic lives of a student. Students will be given multiple ways to email instructor through both the learning management system inbox and faculty provided email accounts.
Face to Face (by student request; cannot be required)	The instructor will hold weekly, scheduled office hours either in person or via-web conferencing, for students to be able to meet and discuss course materials or individual progress. Students can request additional in-person or web conferencing meetings with faculty member as needed. Faculty may encourage online students to form “study groups” in person or online.
Other DE (e.g., recorded lectures)	Faculty will use a variety of ADA compliant tools and media integrated within the learning management system to help students reach SLO competency. Tools may include: <ul style="list-style-type: none"> • Recorded Lectures, Narrated Slides, Screencasts • Instructor created content • OC Online Library Resources • Canvas Peer Review Tool • Canvas Student Groups (Assignments, Discussions) • 3rd Party (Publisher) Tools (MyOpenMath) • Websites and Blogs • Multimedia (YouTube, Films on Demand, 3CMedia, Khan Academy, etc.)
Synchronous Dialog (e.g., online chat)	Instructor will provide a set time each week where they will be available for synchronous chat and be available in the discussion board and can answer questions in live time.

Video Conferencing	Video tools such as ConferZoom can be used to provide live synchronous or asynchronous sessions with students. ADA compliance will be upheld with Closed Captioning during the session or of the recorded session. Recordings of all live sessions will be made available within the LMS. Video Conferences will be used to facilitate SLOs and student-to-student group meetings will also be encouraged.
Telephone	Students can request for instructor to call or vice versa in order to answer one-on-one questions about course material or student progress.

100% online Modality:**Method of Instruction****Document typical activities or assignments for each method of instruction**

Asynchronous Dialog (e.g., discussion board)	Topics will be presented for discussion with the opportunity to provide commentary and feedback on fellow student responses.
E-mail	Topics will be presented for discussion with the opportunity to provide commentary and feedback on fellow student responses.
Face to Face (by student request; cannot be required)	Face to face with students will take place at student request to discuss specific questions, issues, or concerns.
Other DE (e.g., recorded lectures)	Any real-time instruction will be recorded and available to students through the LMS.
Video Conferencing	Zoom or comparable video conferencing software will be utilized to lecture on course content, demonstrate lab assignments, answer student questions in real time, and provide student assistance on anything that is course related.
Synchronous Dialog (e.g., online chat)	Lecture will be held synchronously at a designated weekly meeting.

Examinations**Hybrid (1%–50% online) Modality**

Online
On campus

Hybrid (51%–99% online) Modality

Online
On campus

Primary Minimum Qualification

DENTAL TECHNOLOGY

Additional local certifications required

All dental hygiene program faculty members must possess a baccalaureate or higher degree and must have current knowledge of the specific subjects they are teaching and background in appropriate educational methodology.

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

CCC000499612

DOE/accreditation approval date

MM/DD/YYYY