

# DH R021: GENERAL AND ORAL PATHOLOGY FOR DENTAL HYGIENE

**Originator**

aderdiarian

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

Enriquez, Richard (renriquez)

**College**

Oxnard College

**Discipline (CB01A)**

DH - Dental Hygiene

**Course Number (CB01B)**

R021

**Course Title (CB02)**

General and Oral Pathology for Dental Hygiene

**Banner/Short Title**

General and Oral Pathology

**Credit Type**

Credit

**Start Term**

Fall 2021

**Catalog Course Description**

This is a study of the pathological processes of inflammation, immunology defense, degeneration, neoplasm, developmental disorders, and healing and repair. This class focuses on the recognition of abnormalities in the human body with a special emphasis on normal and abnormal conditions in the oral cavity.

**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**

70

**Maximum Contact/In-Class Lecture Hours**

70

**Activity**

**Laboratory**

**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**

140

**Maximum Outside-of-Class Hours**

140

**Total Student Learning****Total Student Learning****Total Minimum Student Learning Hours**

210

**Total Maximum Student Learning Hours**

210

**Minimum Units (CB07)**

4

**Maximum Units (CB06)**

4

**Prerequisites**

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

**Corequisites**

DH R020 and DH R022 and DH R023 and 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**

Students must possess basic knowledge of normal Anatomy, Biology, and Physiology in order to understand how pathology relates to changes in structure and/or function in Anatomy, Biology, and Physiology.

**Prerequisite Course Objectives**

DH R010-Describe the four basic tissue types along with their structure and function

DH R010-Explain the embryology and histology of the orofacial complex to include the first signs of tooth development, enamel, dentin, and pulp creation, root formation and attachment apparatus, oral mucous membrane and formation of the tongue and salivary glands

DH R010-Recognize normal oral structures

DH R010-Compare the physiological and structural functions of teeth and supporting tissues

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-State the eruption schedule of the deciduous and permanent dentitions

DH R010-Identify and describe the characteristics of ideal occlusion and the three occlusal classifications

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  
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-Diagram and label a sagittal section 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 role of the buccinator muscle in mastication  
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  
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-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-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 importance of detection of periodontal pockets

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## Requisite Justification

### Requisite Type

Prerequisite

### Requisite

DH R010

### Requisite Description

Course in a sequence

### Level of Scrutiny/Justification

Content review

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**Requisite Type**

Prerequisite

**Requisite**

DH R011

**Requisite Description**

Course in a sequence

**Level of Scrutiny/Justification**

Content review

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**Requisite Type**

Prerequisite

**Requisite**

DH R012

**Requisite Description**

Course in a sequence

**Level of Scrutiny/Justification**

Content review

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**Requisite Type**

Prerequisite

**Requisite**

DH R013

**Requisite Description**

Course in a sequence

**Level of Scrutiny/Justification**

Content review

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**Requisite Type**

Prerequisite

**Requisite**

DH R014

**Requisite Description**

Course in a sequence

**Level of Scrutiny/Justification**

Content review

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**Requisite Type**

Prerequisite

**Requisite**

DH R015

**Requisite Description**

Course in a sequence

**Level of Scrutiny/Justification**

Content review

**Requisite Type**

Corequisite

**Requisite**

DH R020

**Requisite Description**

Course in a sequence

**Level of Scrutiny/Justification**

Content review

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**Requisite Type**

Corequisite

**Requisite**

DH R022

**Requisite Description**

Course in a sequence

**Level of Scrutiny/Justification**

Content review

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**Requisite Type**

Corequisite

**Requisite**

DH R023

**Requisite Description**

Course in a sequence

**Level of Scrutiny/Justification**

Content review

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**Requisite Type**

Corequisite

**Requisite**

DH R024

**Requisite Description**

Course in a sequence

**Level of Scrutiny/Justification**

Content review

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**Requisite Type**

Corequisite

**Requisite**

DH R025

**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 | Identify and explain the various pathological processes of inflammation placing them in the correct chronological order. |
| 2 | Identify host cells taking part in the inflammatory process.   |
| 3 | Identify and explain the various components of the immune system.  |
| 4 | Identify common intraoral lesions.   |

**Course Objectives**

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

- |    |  |
|----|--|
| 1  | Identify and explain the various pathological processes of disease, inflammation, immunology defense, degeneration, neoplasm, developmental disorders, and healing and repairs |
| 2  | Recognize abnormalities in the human body with a special emphasis on normal and abnormal conditions in the oral cavity   |
| 3  | Explain the body processes involved in disease formation and the systems the body employs in its defense   |
| 4  | Identify etiologic factors and the signs and symptoms that are associated with diseases  |
| 5  | Describe the body systems responsible for adaptation, wound healing, and repair  |
| 6  | 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               |
| 7  | Analyze the social and economic significance of disease and disease control  |
| 8  | Report major disease entities with emphasis on those that occur in the oral cavity   |
| 9  | Appraise the degenerative and regenerative processes associated with pathogenesis  |
| 10 | Examine oral tissues and recognize a deviation from normal that may be present   |

**Course Content****Lecture/Course Content**

1. Diagnosis
2. Lesions
3. Inflammation and Repair
4. The Immune System
5. The Cardiac System and Heart Disease
6. The Vascular System and Blood Dyscrasis
7. The Respiratory System and Lung Disease
8. The Endocrine System and Lung Disease
9. Developmental Disorders
10. Neoplasia
11. Genetics
12. Oral Manifestations of Systemic Disease
13. Oral Manifestations of Cancer Therapy and the Effects of Drugs on the Oral Tissues

**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):**

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):**

Group projects

Individual projects  
Objective exams  
Quizzes

## **Instructional Methodology**

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

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

### **Describe specific examples of the methods the instructor will use:**

Each Chapt. will begin with introductory lecture utilizing a Critical Thinking Approach to learning ie Principle/Concepts, Purpose/Objectives, Essential Terminology, Guidance on Informational Content, and Questions. PowerPoint is utilized where appropriate for Instructor-guided interpretation. Students come to class with assigned Active Learning Assignments completed for use in collaborative group work and small group activities. Class discussions are used to share learning relevant to the Chapter.

## **Representative Course Assignments**

### **Writing Assignments**

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.

### **Critical Thinking Assignments**

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.

### **Reading Assignments**

1. Student will spend a minimum of 2 hours per week outside of the regular class time for every 1 hr. of lecture.

### **Other assignments (if applicable)**

Study of various classifications of oral and extraoral lesions in order to be able to identify based on a written description or a slide of a particular lesion.

## **Outside Assignments**

### **Articulation**

#### **Attach Syllabus**

DH21Syll19 .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**

Damjanov, Ivan (2011). *Pathology for the Health Professions* (5th Edit). Missouri Elsevier.

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**Resource Type**

Textbook

**Description**

Ibsen, Olga A.C. and Joan Anderson Phelan, (2017). *Oral Pathology for the Dental Hygienist* (7th Edit.). Elsevier.

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## 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. Edited PowerPoint slides will be posted for instructional guidance.
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
Synchronous Dialog (e.g., online chat)	Lecture will be held synchronously at a designated weekly meeting.
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.

#### Hybrid (51%–99% online) Modality:

Method of Instruction	Document typical activities or assignments for each method of instruction
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.
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.
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Synchronous Dialog (e.g., online chat)	Lecture will be held synchronously at a designated weekly meeting.
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.

**100% online Modality:**

<b>Method of Instruction</b>	<b>Document typical activities or assignments for each method of instruction</b>
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.
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.
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**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**

04/27/2020

**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**

CCC000187647

**DOE/accreditation approval date**

MM/DD/YYYY