



# ILLINOIS VALLEY COMMUNITY COLLEGE

## COURSE OUTLINE

**DIVISION:** Health Professions

**COURSE:** DLH 2202 Board Review

Date: Spring 2024

Credit Hours: 1

*Complete all that apply or mark "None" where appropriate:*

Prerequisite(s): Acceptance into the Dental Hygiene A.A.S. Degree Program

Enrollment by assessment or other measure?  Yes  No

If yes, please describe:

Corequisite(s): None

Pre- or Corequisite(s): None

Consent of Instructor:  Yes  No

Delivery Method:	<input checked="" type="checkbox"/> <b>Lecture</b>	<b>1 Contact Hours</b> (1 contact = 1 credit hour)
	<input type="checkbox"/> <b>Seminar</b>	<b>0 Contact Hours</b> (1 contact = 1 credit hour)
	<input type="checkbox"/> <b>Lab</b>	<b>0 Contact Hours</b> (2-3 contact = 1 credit hour)
	<input type="checkbox"/> <b>Clinical</b>	<b>0 Contact Hours</b> (3 contact = 1 credit hour)

Offered:  **Fall**  **Spring**  **Summer**

**CATALOG DESCRIPTION and IAI NUMBER (if applicable):**

This course is a comprehensive review of dental hygiene curriculum that helps to prepare the student to take the National Dental Hygiene Board Examination.

## **ACCREDITATION STATEMENTS AND COURSE NOTES:**

None

## **COURSE TOPICS AND CONTENT REQUIREMENTS:**

- I. Preparing for national, regional, and state Dental Hygiene Board Examinations
  - I.1. Dental hygiene licensure
  - I.2. State boards of dentistry or dental hygiene and professional associations
  - I.3. Joint commission on national dental examinations
  - I.4. National board dental hygiene examination
- II. Dental anatomy and physiology
  - II.1. General histology
  - II.2. General embryology
  - II.3. Systems of the body and their components
  - II.4. Osteology
  - II.5. Muscular system
  - II.6. Temporomandibular joint
  - II.7. Circulatory system
  - II.8. Lymphatic system
  - II.9. Glands of the head and neck region
  - II.10. Nervous system
  - II.11. Dental anatomy
  - II.12. Summary of tooth dimensions
- III. Oral and maxillofacial radiology for the dental hygienist
  - III.1. Radiation biology and protection
  - III.2. Film and processing errors
  - III.3. Quality assurance
  - III.4. Digital imaging
  - III.5. Techniques
  - III.6. Errors
  - III.7. Radiographic interpretation
- IV. General and oral pathology
  - IV.1. Inflammation
  - IV.2. Differential diagnosis
  - IV.3. Benign lesions of soft tissue origin
  - IV.4. Inflammatory tumors (Granulomas)
  - IV.5. Benign intraosseous neoplasms
  - IV.6. Gingival fibromatosis
  - IV.7. Ulcerative diseases
  - IV.8. Minor aphthous ulcers
  - IV.9. Major aphthous ulcers
  - IV.10. Skin diseases
  - IV.11. White lesions
  - IV.12. Neoplasia
  - IV.13. Pleomorphic adenoma (benign mixed tumor)
  - IV.14. Cysts
  - IV.15. Developmental cysts

- IV.16 Odontogenic cysts
- IV.17 Blood disorders
- IV.18 Human immunodeficiency virus (HIV)
- IV.19 Fibrous dysplasia
- IV.20 Endocrine disorders
- IV.21 Abnormalities of teeth
- IV.22 Conditions of oral soft tissues
- V. Microbiology and immunology
  - V.1. Microbiology of the oral cavity
- VI. Infection control
  - VI.1. Disease transmission
  - VI.2. Infection control procedures for dental health care personnel
- VII. Pharmacology in the dental hygiene setting
  - VII.1. Autonomic nervous system agents
  - VII.2. Local anesthetic reversal agent
  - VII.3. General anesthetics
  - VII.4. Anti-infectives (antibiotics)
  - VII.5. Cardiovascular agents
  - VII.6. Antiarrhythmics
  - VII.7. Psychotherapeutic agents
  - VII.8. Endocrine agents
  - VII.9. Respiratory system agents
  - VII.10. Gastrointestinal agents
  - VII.11. Antineoplastic agents
  - VII.12. Substance abuse
  - VII.13. Drug use during pregnancy
- VIII. Biochemistry, nutrition, and nutritional counseling
  - VIII.1. Six major classes of essential nutrients
  - VIII.2. Specialized cells of oral tissues: effects of nutrients
  - VIII.3. Energy balances and weight control
  - VIII.4. Nutritional assessment and counseling
- IX. Biomaterials and periodontics
  - IX.1. Direct preventative and restorative materials
  - IX.2. Indirect preventative and restorative materials
  - IX.3. Basic features of the periodontium
  - IX.4. Diseases of the periodontium
  - IX.5. Changes in the periodontium associated with disease
  - IX.6. Bacterial dental biofilm
  - IX.7. Clinical assessment of the periodontium
  - IX.8. Systemic effects of periodontal disease
  - IX.9. Treatment
  - IX.10. Postoperative care
  - IX.11. Dental implants
- X. The dental hygiene process of care
  - X.1. Health history evaluation
  - X.2. Extraoral and intraoral assessment

- X.3. Assessment of dentition
- X.4. Periodontal assessment
- X.5. Radiographic evaluation
- X.6. Oral hygiene assessment
- X.7. Risk factor assessments
- X.8. Diagnosis
- X.9. Prognosis
- X.10. Evidence-based decision making
- X.11. Planning Case presentation
- X.12. Informed consent
- X.13. Implementation
- X.14. Client management with effective communication
- X.15. Evaluation
- X.16. Documentation
- XI. Strategies for oral health promotion and disease prevention and control
  - XI.1. Preventive care planning
  - XI.2. Dental plaque biofilm detection
  - XI.3. Mechanical plaque biofilm control on facial, lingual, and occlusal tooth surfaces
  - XI.4. Interdental plaque biofilm control
  - XI.5. Dentifrices
  - XI.6. Oral irrigation
  - XI.7. Care of fixed and removable prostheses
  - XI.8. Caries management
  - XI.9. Mouthrinses or chemotherapeutics
  - XI.10. Dental sealants
  - XI.11. Tobacco use interventions
  - XI.12. Periodontal disease risk assessment
  - XI.13. Oral cancer risk assessment
  - XI.14. Diagnostic tools for oral cancer detection
  - XI.15. Assessment of dentinal hypersensitivity
  - XI.16. Etiology
  - XI.17. Pulpal vitality and testing devices
- XII. Periodontal instrumentation for assessment and care
  - XII.1. Instrument design
  - XII.2. Hand-activated instruments
  - XII.3. Principles of instrumentation
  - XII.4. Steps for calculus removal with hand-activated instruments
  - XII.5. Instrumentation for assessment
  - XII.6. Concepts in periodontal instrumentation
  - XII.7. Sharpening of Hand-Activated Instruments
  - XII.8. Ultrasonic and sonic instrumentation
  - XII.9. Advanced instrumentation techniques
  - XII.10. Selective stain removal
- XIII. Management of pain and anxiety
  - XIII.1. Characteristics and physiology of pain

- XIII.2. Local Anesthesia Armamentarium
- XIII.3. Local anesthetic agents
- XIII.4. Local anesthesia injections
- XIII.5. Trigeminal nerve: maxillary nerve, second division (V2)
- XIII.6. Trigeminal nerve: mandibular nerve, third division (V3)
- XIII.7. Local Anesthesia Complications
- XIII.8. Conscious sedation with nitrous oxide–oxygen
- XIV. Dental hygiene care for clients with special needs care
  - XIV.1. Specific conditions
  - XIV.2. Overall dental management considerations for special care clients
- XV. Community oral health planning and practice
  - XV.1. Epidemiology and research
  - XV.2. Epidemiology of oral diseases and conditions
  - XV.3. Measurement of diseases and conditions in oral epidemiology
  - XV.4. Preventing and controlling oral diseases and conditions
  - XV.5. Community intervention
  - XV.6. Program evaluation
  - XV.7. Provision of oral health care
  - XV.8. Financing oral health care
  - XV.9. Need for, demand for, and utilization of dental services
  - XV.10. Oral health care challenges affecting community oral health practice
- XVI. Medical emergencies and ethical and legal issues
  - XVI.1. Medical history
  - XVI.2. Vital signs
  - XVI.3. The emergency kit
  - XVI.4. Emergency care
  - XVI.5. Management of medical emergencies
  - XVI.6. Ethical considerations
  - XVI.7. Professionalism
  - XVI.8. Ethical issues in public policy
  - XVI.9. Legal concepts
  - XVI.10. Civil law and the dental hygienist
  - XVI.11. Dental Records and record keeping
  - XVI.12. Employer and employee rights and responsibilities
  - XVI.13. Risk management and avoiding litigation

**INSTRUCTIONAL METHODS:**

- Online discussion
- visual aids
- Slide presentations
- case study
- quiz
- exams

## EVALUATION OF STUDENT ACHIEVEMENT:

The following grading scale will be used as a guide in determining the final grade for this course:

A= 92-100  
B= 83-91  
C= 75-82  
D= 68-74  
F= 67 and below

## INSTRUCTIONAL MATERIALS:

### Textbooks

Blue, Christine M. (2017). *Darbys' Comprehensive Review of Dental Hygiene*, (8th ed.). Elsevier Inc.

Bennett, Barbara L. (2014). *Mosby's Review Questions for the National Board Dental Hygiene Examination*, (1<sup>st</sup>. ed.). Elsevier Inc

## LEARNING OUTCOMES AND GOALS:

### Institutional Learning Outcomes

- 1) Communication – to communicate effectively.
- 2) Inquiry – to apply critical, logical, creative, aesthetic, or quantitative analytical reasoning to formulate a judgement or conclusion.
- 3) Social Consciousness – to understand what it means to be a socially conscious person, locally and globally.
- 4) Responsibility – to recognize how personal choices affect self and society.

### Course Outcomes and Competencies

1. Examine preparing for national, regional, and state Dental Hygiene Board Examinations
2. Discuss dental anatomy and physiology
3. Discuss oral and maxillofacial radiology for the dental hygienist
4. Discuss general and oral pathology
5. Review microbiology and immunology
6. Review infection control and prevention
7. Discuss pharmacology in the dental hygiene setting
8. Discuss biochemistry, nutrition, and nutritional counseling
9. Review biomaterials and periodontics
10. Discuss the dental hygiene process of care
11. Examine strategies for oral health promotion and disease prevention and control
12. Review periodontal instrumentation for assessment and care
13. Discuss management of pain and anxiety
14. Review dental hygiene care for clients with special needs care
15. Discuss community oral health planning and practice
16. Review medical emergencies and ethical and legal issues