



ILLINOIS VALLEY COMMUNITY COLLEGE

COURSE OUTLINE

DIVISION: Workforce Development

COURSE: DLH 2202 Board Review

Date: Spring 2021

Credit Hours: 0.5 credit hours

Prerequisite(s): Successful completion of all first-year, fall semester courses listed in the Dental Hygiene A.A.S. Degree

Delivery Method:

<input checked="" type="checkbox"/> Lecture	.5 Contact Hours (1 contact = 1 credit hour)
<input type="checkbox"/> Seminar	0 Contact Hours (1 contact = 1 credit hour)
<input type="checkbox"/> Lab	0 Contact Hours (2-3 contact = 1 credit hour)
<input type="checkbox"/> Clinical	0 Contact Hours (3 contact = 1 credit hour)
<input checked="" type="checkbox"/> Online	
<input type="checkbox"/> Blended	

Offered: Fall Spring Summer

IAI Equivalent –**Only for Transfer Courses**–go to <http://www.itransfer.org>:

CATALOG DESCRIPTION:

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

GENERAL EDUCATION GOALS ADDRESSED

[See last page for Course Competency/Assessment Methods Matrix.]

Upon completion of the course, the student will be able:

[Choose up to three goals that will be formally assessed in this course.]

- To apply analytical and problem solving skills to personal, social, and professional issues and situations.
- To communicate successfully, both orally and in writing, to a variety of audiences.
- To construct a critical awareness of and appreciation for diversity.
- To understand and use technology effectively and to understand its impact on the individual and society.
- To develop interpersonal capacity.
- To recognize what it means to act ethically and responsibly as an individual and as a member of society.
- To recognize what it means to develop and maintain a healthy lifestyle in terms of mind, body, and spirit.
- To connect learning to life.

EXPECTED LEARNING OUTCOMES AND RELATED COMPETENCIES:

[Outcomes related to course specific goals. See last page for more information.]

Upon completion of the course, the student will be able to:

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

MAPPING LEARNING OUTCOMES TO GENERAL EDUCATION GOALS

[For each of the goals selected above, indicate which outcomes align with the goal.]

Goals	Outcomes
First Goal	
To apply analytical and problem solving skills to personal, social, and	10. Discuss strategies for oral health promotion and disease prevention and control

professional issues and situations.	
Second Goal	
To communicate successfully, both orally and in writing, to a variety of audiences	9. Discuss the dental hygiene process of care
Third Goal	
To recognize what it means to develop and maintain a healthy lifestyle in terms of mind, body, and spirit.	15. Review medical emergencies and ethical and legal issues

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
- PowerPoint
- case study
- quiz
- exams

INSTRUCTIONAL MATERIALS:

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

STUDENT REQUIREMENTS AND METHODS OF EVALUATION:

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

OTHER REFERENCES