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:
  □ Lecture  1 Contact Hours (1 contact = 1 credit hour)
  □ Seminar  0 Contact Hours (1 contact = 1 credit hour)
  □ Lab  0 Contact Hours (2-3 contact = 1 credit hour)
  □ Clinical  0 Contact Hours (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


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