

Student ID: _____
 Student Name: _____
 Adviser Name: _____

Catalog: College Catalog 2015-16
 Program: Dental Hygiene
 Minimum Credits Required: _____

Dental Hygiene

Offered at Main Campus

The Dental Hygiene program is a 24-month (eight-term) program that prepares the student to be an oral health professional. The curriculum is comprised of Dental Hygiene and general education courses as required by the Commission on Dental Accreditation. The Dental Hygiene program contains didactic, laboratory and clinical experiences.

The program in Dental Hygiene is accredited by the Commission on Dental Accreditation. The Commission is a specialized accrediting body recognized by the United States Department of Education. The Commission on Dental Accreditation can be contacted at (312) 440-4653 or at 211 East Chicago Avenue, Chicago, IL 60611. The Commission's web address is:
http://www.ada.org/prof/ed/programs/search_index.asp.

Graduates will become employed in private dentist's offices, public health agencies, community health offices, hospitals and schools. Upon successful completion, students are awarded Associate of Applied Science degrees in Dental Hygiene. Graduates of the program will be eligible to sit for the National Board Dental Hygiene (NBDHE) and clinical board exam CRDTS.

Students may enroll in the program at the beginning of the Fall term.

Criminal background and dependent adult and child abuse record checks as well as drug tests are required prior to beginning the program.

Term I

Course Name	- Credits:	Term Taken	Grade	Gen Ed
BIO 175 - Human Anatomy	- Credits: 3.00			
BIO 176 - Human Anatomy Lab	- Credits: 1.00			
DEA 256 - Dental Anatomy	- Credits: 2.00			
ENG 105 - Composition I	- Credits: 3.00			
XXX XXX General Education: Mathematics - Credits 3.00				

Total: 12 Credits

Term II

Course Name	- Credits:	Term Taken	Grade	Gen Ed
CHM 121 - Introduction to General Chemistry	- Credits: 3.00			
DEA 312 - Dental Radiography	- Credits: 3.00			
DEA 403 - Dental Materials	- Credits: 3.00			

Total: 9 Credits

Term III

Course Name	- Credits:	Term Taken	Grade	Gen Ed
BIO 187 - Microbiology w/lab	- Credits: 4.00			
CHM 132 - Introduction to Organic and Biochemistry	- Credits: 4.00			
CSC 105 - Computer Essentials	- Credits: 1.00			
DEA 321 - Dental Radiography II	- Credits: 2.00			

Total: 11 Credits

Term IV

Course Name	- Credits:	Term Taken	Grade	Gen Ed
BIO 178 - Human Physiology	- Credits: 3.00			
BIO 179 - Human Physiology Lab	- Credits: 1.00			
PSY 111 - Introduction to Psychology	- Credits: 3.00			
SOC 110 - Introduction to Sociology	- Credits: 3.00			

Total: 10 Credits

Term V

Course Name	- Credits:	Term Taken	Grade	Gen Ed

DHY 117 - Advanced Dental Anatomy	- Credits: 2.00			
DHY 165 - Advanced Dental Radiography	- Credits: 2.00			
DHY 176 - Clinical Procedures	- Credits: 3.00			
DHY 235 - Nutrition for Dental Hygiene	- Credits: 2.00			

Total: 9 Credits**Term VI**

Course Name	- Credits:	Term Taken	Grade	Gen Ed
DHY 123 - Oral Histology and Embryology	- Credits: 2.00			
DHY 143 - Oral Pathology	- Credits: 2.00			
DHY 154 - Dental Emergency Management	- Credits: 1.00			
DHY 185 - Advanced Clinical Procedures	- Credits: 3.00			
DHY 229 - Dental Preventative Health	- Credits: 2.00			
SPC 101 - Fundamentals of Oral Communication	- Credits: 3.00			
OR				
SPC 112 - Public Speaking	- Credits: 3.00			
OR				
SPC 122 - Interpersonal Communication	- Credits: 3.00			

Total: 13 Credits**Term VII**

Course Name	- Credits:	Term Taken	Grade	Gen Ed
DHY 135 - Pharmacology and Pain Control	- Credits: 3.00			
DHY 208 - Periodontology	- Credits: 2.00			
DHY 245 - Ethics and Jurisprudence	- Credits: 2.00			
DHY 290 - Dental Hygiene Practicum I	- Credits: 6.00			

Total: 13 Credits**Term VIII**

Course Name	- Credits:	Term Taken	Grade	Gen Ed
DHY 258 - Community Health Concepts	- Credits: 2.00			
DHY 310 - Dental Hygiene Practicum II	- Credits: 6.00			
DHY 315 - Seminar for Dental Hygiene	- Credits: 1.00			

Total: 9 Credits

Notes:

DHY117
Advanced Dental Anatomy

Credit: 2.00
Lecture Hours: 32.00
Lab Hours: 0
Clinical Hours: 0
Work Exp. Hours: 0
Course Fees: 0

External Impact

Instruction Resources General

Text References

1. Nelson, S.. *Wheeler's dental anatomy, physiology, & occlusion.*, Elsevier, 2015

Description

This course is a comprehensive study of oral landmarks, tooth morphology and significant structures of the periodontium as each relates to the practice of dental hygiene.

Requisite

Prerequisite: DEA-256 , **Prerequisite:** BIO-175

Focus

This course focuses on the understanding of tooth morphology and dental anatomy.

Student Contribution

The student will actively participate in all selected readings, assignments, and course activities.

Evaluation

The student will be evaluated according to the criteria established in the course objectives. A course schedule will be provided at the beginning of the term. Course evaluation will be based on quizzes, activities, and exams.

The final grade will be based on the following: A=93-100%, B=85-92%, C=78-84%, D=75-77%, and F=0-74%.

Student Learning Outcomes

1. communicate with other professionals using correct dental vocabulary
2. identify the primary dentition and the importance of the maintenance of a sound primary dentition
3. describe the tooth formation standards
4. describe the sequence of tooth eruption
5. recognize functional malocclusion and identify their etiology in terms of developing, changing face and dentition
6. describe temporomandibular joint and the functional interrelationship between dentition and the joint
7. identify the factors that support the dentition and the clinical appearance of the dentition within the periodontium
8. identify age and age related changes in the oral cavity that affect the dentition
9. explain the importance of forensic dentistry in the dental practice

10. apply clinical application of dental anatomy, physiology, and occlusion

Assessment

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DHY165
Advanced Dental Radiography

Credit: 2.00
Lecture Hours: 16.00
Lab Hours: 32.00
Clinical Hours: 0
Work Exp. Hours: 0
Course Fees: \$100.00

External Impact

Instruction Resources General

Text References

1. Iannucci, J & Howerton, L.. *Dental Radiography principles and techniques*, 4th Elsevier, 2012
2. Langlais, R.. *Exercises in oral radiology and interpretation*, 4th Elsevier, 2004

Description

The purpose of this course is to introduce the student to the interpretation and diagnosis of hard and soft tissue pathologies. Students will be able to recognize the stages of disease and health in the existing dental structures. Knowledge of radiology exposure and processing will be expanded.

Requisite

Prerequisite: DEA-312

Focus

The focus of this course is on the radiographic imaging aspects of consumers in dental hygiene settings. Emphasis is on radiographic imaging with a concentration on technique and diagnostics.

Student Contribution

The student will actively participate in all selected readings, assignments, and course activities.

Evaluation

The student will be evaluated according to the criteria established in the course objectives. A course schedule will be provided at the beginning of the term. Course evaluation will be based on quizzes, activities, and exams.

The final grade will be based on the following: A=93-100%, B=85-92%, C=78-84%, D=75-77%, and F=0-74%.

Student Learning Outcomes

1. demonstrate how to take radiographs based on specific patient needs using various radiographic techniques
2. evaluate radiation chemistry, exposure, and safety monitoring
3. apply principles of digital and film imaging.
4. apply and assess dental radiographic image sharpness and distortion in paralleling and bisecting technique
5. compare dental imaging interpretation of diseases that manifest in the oral pathology
6. compare dental imaging interpretation of trauma involving dental and cranial anomalies

7. compare dental imaging interpretation of implants with radiograph signs associated with failing endosseous implants
8. demonstrate how to correctly mount the films in a film holder/digital images and identify normal anatomical structures in any radiographic series
9. compare dental disease, anomalies, and dental materials in a dental imaging radiograph identifying the location.
10. assess how a radiographic dental image is placed on a film/digital sensors including the process that occurs to make the image visible and identify processing errors that will affect the quality of the radiographic film
11. analyze and apply how the electrical current is used and altered in the dental x-ray machine to produce primary radiation and how that radiation interacts with matter to produce secondary and scatter radiation, including how the radiation is measured and how it affects living tissue
12. discuss how the dental hygienist will interact with clients concerning dental radiography and describe the legal obligations hygienists have to their clients and their employer

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DHY176
Clinical Procedures

Credit: 3.00
Lecture Hours: 32.00
Lab Hours: 32.00
Clinical Hours: 0
Work Exp. Hours: 0
Course Fees: \$200.00

External Impact

Instruction Resources General

Text References

1. Darby, M.& Walsh, M.. *Dental hygiene theory and practice*, 4th Elsevier, 2015

Description

The course will provide necessary instruction and supervised practice in the preparation and delivery of basic level patient care. Both theory and practice in infection control and delivery of dental hygiene care in the dental operator will be reviewed. Topics and discussions include maintenance of equipment, instrument identification, processing of instruments, basic routines for operator asepsis, patient charting, ergonomics and skill development. Competency is achieved on manikins and peers.

Requisite

Prerequisite: DEA-321

Focus

The course focuses on an introduction to dental hygiene, including the role, responsibilities, and student skill development necessary to succeed. Theories, practice models, assessments and intervention are addressed in the dental hygiene setting.

Student Contribution

The student will actively participate in all selected readings, assignments and course activities.

Evaluation

The student will be evaluated according to the criteria established in the course objectives. A course schedule will be provided on quizzes, activities, and exams.

The final grade will be based on the following: A=93-100%, B=85-92%, C=78-84%, D=75-77%, and F=0-74%.

Student Learning Outcomes

1. identify the role of the dental hygienist
2. explain the current infection control concepts and the rationale for universal blood and body fluid precautions
3. explain and demonstrate how to obtain a thorough personal, dental, and medical history,

and obtain accurate vital signs

4. demonstrate appropriate operator, assistant, and patient positioning for optimal dental hygiene care

5. complete an oral examination/cancer inspection and explain the rationale for teaching the client self- examination procedure

6. select and operate appropriately the dental explorer, periodontal probe, mouth mirror, and complete accurate assessment recording such as patient classification, occlusal classification, abnormal oral habits, PSR, and periodontal charting

7. record accurately the anatomical and geometric dental chartings choosing the appropriate symbols

8. assess and prepare the dental hygiene care plan including patient education taking into consideration the clients wants and needs

9. demonstrate appropriately the dental scaling instruments: sickles, cures, and ultrasonics.

10. practice thinking critically and solving problems

11. interpret numeric information and demonstrate competency with clinic software

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DHY235
Nutrition for Dental Hygiene

Credit: 2.00
Lecture Hours: 32.00
Lab Hours: 0
Clinical Hours: 0
Work Exp. Hours: 0
Course Fees: 0

External Impact

Instruction Resources General

Text References

1. Davis, S. & Stegeman, C.. *The dental hygienist's guide to nutritional care*, 4th Elsevier, 2015

Description

This course provides a comprehensive overview of nutritional biochemistry. Emphasis will be placed on the effects of nutrition on oral health and the application of counseling strategies to assist the patient in attaining and maintaining optimum oral health.

Requisite

Prerequisite: DEA-256

Focus

The course focus is on the advanced understanding of nutrition. Nutritional evaluation, diet therapy, and disease signs that may accompany inadequate nutritional patterns are emphasized.

Student Contribution

The student will actively participate in all selected readings, assignments, and course activities.

Evaluation

The student will be evaluated according to the criteria established in the course objectives. A course schedule will be provided at the beginning of the term. Course evaluation will be based on quizzes, activities, and exams.

The final grade will be based on the following: A=93-100%, B=85-92%, C=78-84%, D=75-77%, and F=0-74%.

Student Learning Outcomes

1. describe food habit development, current nutritional concerns and food labels
2. differentiate Recommended Dietary Allowances and Recommended Daily Intakes (RDI) and dietary guidelines
3. describe methods for selecting a balanced diet, e.g., the USDA's food guide pyramid
4. describe the dietary sources, functions, digestion, absorption, metabolism and chemical makeup of carbohydrates
5. discuss development of dental caries from carbohydrate consumption, diseases associated with carbohydrates
6. discuss the effects of carbohydrate consumption on the development of dental caries
7. describe dietary sources, requirements, digestion, absorption, and metabolism of the chemical makeup of lipids comparing and contrasting saturated and unsaturated fatty acids

8. describe the digestion, absorption, metabolism of proteins, chemical makeup, dietary sources, requirements, and diseases associated with protein nutrition
9. define basal metabolism and identify factors that affect it
10. describe a sound and complete weight loss program
11. describe factors which contribute to the development of eating disorders
12. describe the functions, dietary sources and disorders from deficiency or toxicity from vitamins A, D, E, and K
13. describe the functions, dietary sources, deficiencies and toxicity from vitamin C and the B complex vitamins
14. describe the oral manifestations of deficiency states of fat-soluble and water-soluble vitamins
15. describe and classify the functions of major and trace essential minerals in the body
16. describe dietary sources, requirements, disorders of osteoporosis and hypertension from deficiency and toxicity states of the minerals
17. describe the functions of water in the body
18. discuss strategies for counseling for behavior change, behavior change process
19. discuss the need for a complete medical and social history, assessment of the patient's physical appearance, and a complete baseline diet
20. describe and demonstrate the procedure for nutritional counseling including establishing the baseline, intervention, generalizing and case summary
21. implement special nutritional needs for the stages of life

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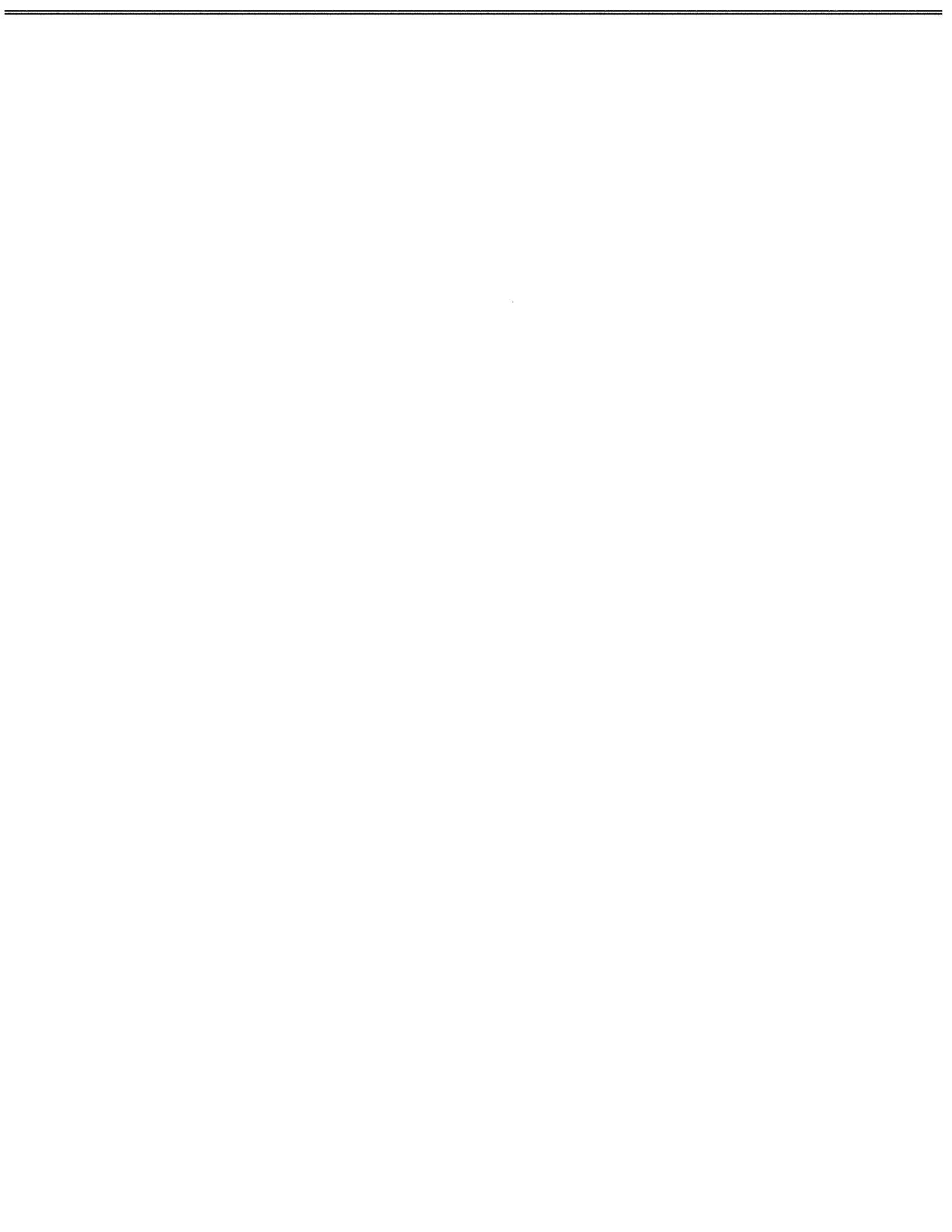
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DHY123
Oral Histology and Embryology

Credit: 2.00
Lecture Hours: 32.00
Lab Hours: 0
Clinical Hours: 0
Work Exp. Hours: 0
Course Fees: 0

External Impact

Instruction Resources General

Text References

1. Chiego,D.. *Essentials of oral histology and embryology*, Elsevier, 2014

Description

This course is designed to provide students with an embryological foundation regarding the growth and development of the oral facial structures. Topics include developmental timelines for dental structures and the factors influencing them. Emphasis on initiation, eruption and exfoliation will be covered.

Requisite

Prerequisite: DEA-256 , **Prerequisite:** DHY-117

Focus

The focus of this course is the study of oral histological tissues components, and structures of facial development. Emphasis is on histology of the face, teeth, and oral structure with a concentration on tooth formation, eruption, and exfoliation. Theories, assessments are applied. Instructional strategy will include lectures, study objectives, quizzes, and enrichment projects.

Student Contribution

The student will actively participate in all selected readings, assignments, and course activities.

Evaluation

The student will be evaluate according to the criteria established in the course objectives. A course schedule will be provided at the begining of the term. Course evaluation will be based on quizzes, activities, and exams

The final grade will be based on the following: A=93-100%, B=85-92%, C=78-84%, D=75-77%, and F=0-74%.

Student Learning Outcomes

1. describe the basic stages of development during the first trimester of growth
2. describe and differentiate the three primary embryonic tissues
3. describe prenatal development and disturbances of the face and oral cavity
4. describe and identify histological features of four primary tissues
5. identify the microscopic, macroscopic, and histological features of the gingiva and hard palate
6. describe histological features of the oral mucosa, salivary glands, and tongue
7. describe the pre eruptive, exfoliation of the primary teeth

8. describe the eruption process of the permanent teeth
9. describe the age related physical and chemical changes in enamel
10. compare the amelogenesis, dentinogenesis, and cementogenesis
11. describe and compare mineralization processes for enamel, dentin and cementum
12. differentiate the physical, structural and chemical components of the enamel, dentin and pulp
13. describe the physical, structural, and function of the periodontal ligament, cementum, alveolar process, and alveolar base
14. discuss the development of the mandible and maxilla

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DHY143
Oral Pathology

Credit: 2.00
Lecture Hours: 32.00
Lab Hours: 0
Clinical Hours: 0
Work Exp. Hours: 0
Course Fees: 0

External Impact

Instruction Resources General

Text References

1. Ibsen, O.. *Oral pathology for the dental hygienist*, 6th Elsevier, 2014

Description

This course is designed to provide knowledge in general pathology and specific pathologic processes, including inflammatory and immunologic defenses, as well as neoplastic, metabolic, inherited and developmental disturbances. The student will be able to develop useful differential diagnosis.

Requisite

Prerequisite: DEA-256 , **Prerequisite:** DHY-117

Focus

The focus of this course is on the study of oral histological tissue components and structures of facial development. Emphasis is on histology of the face, teeth, and oral structures with a concentration on tooth formation, eruption and exfoliation.

Student Contribution

The student will actively participate in all selected readings, assignments, and course activities.

Evaluation

The student will be evaluated according to the criteria established in the course objectives. A course schedule will be provided at the beginning of the term. Course evaluation will be based on quizzes, activities, and exams.

The final grade will be based on the following: A=93-100%, B=85-92%, C=78-84%, D=75-77%, and F=0-74%.

Student Learning Outcomes

1. assess variants of normal and benign conditions of the oral cavity
2. evaluate the process of inflammation
3. evaluate the healing process
4. compare oral diseases with immunologic pathogenesis
5. describe process of immune response
6. analyze the clinical appearance of oral manifestations of AIDS/HIV
7. compare the oral symptoms of viral, bacterial, and fungal infections
8. compare developmental soft tissue anomalies
9. compare developmental abnormalities

10. compare inherited disorders that affect the head and neck region
11. examine the epidemiology and etiology of neoplasia
12. evaluate the general characteristics of benign and malignant neoplasms
13. evaluate neoplastic diseases which commonly occur in the head and neck region
14. describe and recognize benign fibro-osseous lesions
15. describe and discuss disorders of the temporomandibular joint
16. analyze the function of the endocrine system
17. describe the oral effects of pathology of the endocrine system
18. analyze the etiology and pathogenesis of specific blood diseases

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DHY154
Dental Emergency Management

Credit: 1.00
Lecture Hours: 16.00
Lab Hours: 0
Clinical Hours: 0
Work Exp. Hours: 0
Course Fees: 110.00

External Impact

Instruction Resources General

Text References

1. Darby, M.& Walsh, M.. *Dental hygiene theory and practice*, 4th Elsevier, 2015
2. Malamed, S.. *Medical emergencies in the dental office*, 7th Elsevier, 2015

Description

This course is designed to prepare students to recognize and respond to an emergency in the dental office.

Requisite

Prerequisite: DHY-176

Focus

The focus of this course is on the instruction of medical emergencies, emergency flow chart and prevention of the emergency.

Student Contribution

The student will actively participate in all selected readings, assignments, and course activities.

Evaluation

The student will be evaluated according to the criteria established in the course objectives. A course schedule will be provided at the beginning of the term. Course evaluation will be based on quizzes, activities, and exams.

The final grade will be based on the following: A=93-100%, B=85-92%, C=78-84%, D=75-77%, and F=0-74%.

Student Learning Outcomes

1. predict, prevent, recognize, and manage medical emergencies in the dental office
2. identify the signs and symptoms of presyncope and syncope
3. compare and contrast the American Society of Anesthesiologists (ASA) classification
4. demonstrate resuscitative techniques at various levels of need
5. initiate and demonstrate EMS system and assist in a medical emergency by recording vitals and assembling personal data for transfer of care
6. demonstrate on a real or simulated adult, infant or child experiencing a respiratory or cardiac arrest, the proper technique and procedures of the one rescuer emergency intervention consistent with the current American Heart Association standards

7. demonstrate on a real or simulated adult, infant or child experiencing a complete or partial airway obstruction the proper technique, and procedures consistent with the current American Heart Association standards
8. ventilate a patient (real or simulated) using a pocket mask according to current AHA standards of chest expansion
9. demonstrate on a real or simulated adult or child suffering from cardiac arrest the proper two rescuer technique and procedural steps consistent with the most recent American Heart Association standards

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DHY185
Advanced Clinical Procedures

Credit: 3.00
Lecture Hours: 32.00
Lab Hours: 32.00
Clinical Hours: 0
Work Exp. Hours: 0
Course Fees: \$200.00

External Impact

Instruction Resources General

Text References

1. Darby, M.& Walsh, M.. *Dental hygiene theory and practice*, 4th Elsevier, 2015

Description

The course will provide necessary instruction and supervised practice in advanced dental hygiene instrumentation. Students will acquire advanced skills in developing treatment plans for advanced cases. Clinical sessions in the laboratory setting would require students to demonstrate competency in utilizing dental hygiene instruments, detection and removal of subgingival deposits, ultrasonic scaling and air polishers. Competency is achieved on manikins and peers.

Requisite

Prerequisite: DHY-176

Focus

The focus of this course is on the application of dental hygiene practices in assessment, intervention and treatment planning.

Student Contribution

The student will actively participate in all selected readings, assignments, and course activities.

Evaluation

The student will be evaluated according to the criteria established in the course objectives. A course schedule will be provided on quizzes, activities, and exams.

The final grade will be based on the following: A=93-100%, B=85-92%, C=78-84%, D=75-77%, and F=0-74%.

Student Learning Outcomes

1. provide treatment consideration for the special needs patient
2. provide palliative care for patients undergoing cancer therapy
3. provide dental care for the developmentally and cognitively challenged
4. implement the selective polishing concept
5. apply topical fluoride agents
6. distinguish signs and symptoms of common dental office emergencies and the procedures to follow in the event that each occurs
7. choose and utilize appropriate power scaling and manual scaling instruments

8. utilize a manual oral irrigation device
9. identify the need for instrument sharpening and demonstrate the sharpening technique

Assessment

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DHY229
Dental Preventative Health

Credit: 2.00
Lecture Hours: 32.00
Lab Hours: 0
Clinical Hours: 0
Work Exp. Hours: 0
Course Fees: 0

External Impact

Instruction Resources General

Text References

1. Cappelli, D. & Mobley, C.. *Prevention in clinical oral health care*, 1st Elsevier, Saint Louis, 2008
2. Darby, M. & Walsh, M.. *Dental hygiene theory and practice*, 4th Elsevier, 2015

Description

This course is designed to provide concepts of health and wellness; theories of teaching and motivation and a thorough knowledge of life stage changes. Students will identify and research contemporary treatment modalities.

Requisite

Prerequisite: DHY-235

Focus

This course focus is on the understanding of preventive dental therapies in the life stage changes.

Student Contribution

The student will actively participate in all selected readings, assignments, and course activities.

Evaluation

The student will be evaluated according to the criteria established in the course objectives. A course schedule will be provided at the beginning of the term. Course evaluation will be based on quizzes, activities, and exams.

The final grade will be based on the following: A=93-100%, B=85-92%, C=78-84%, D=75-77%, and F=0-74%.

Student Learning Outcomes

1. differentiate the life changes dental needs and how to change therapies as the aging body changes occur
2. utilize the dental hygiene process of care with tooth brushing including the sharing of evidence based decision making with clients regarding and use of oral therapeutics based on specific patient needs
3. activate the CAMBRA caries prevention plan for all ages and lifestyles
4. implement the nutritional needs of all patient life changes
5. create a diagnostic, goals, intervention and outcome for caries prevention, nutritional changes and habit control

6. describe the link between oral and systemic health including health screening guidelines specific for women
7. describe the dental care of infants and children including the planning of their dental hygiene care
8. present the importance of health promotion for the older adult
9. describe oral conditions in the aged, including: differentiating age-related changes from those that occur as a result of diseases or medications

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DHY135
Pharmacology and Pain Control

Credit: 3.00
Lecture Hours: 32.00
Lab Hours: 32.00
Clinical Hours: 0
Work Exp. Hours: 0
Course Fees: \$200.00

External Impact

Instruction Resources General

Text References

1. Clark, M & Brunick, A. *Handbook of nitrous oxide and oxygen sedation*, 4th Elsevier, 2015
2. Halves, E.. *Applied pharmacology for the dental hygienist*, Elsevier, 2011
3. Jeske, A. *Mosby's dental drug reference*, 11th Elsevier, 2014
4. Malamed, S.. *Handbook of local anesthesia*, Elsevier, 2004

Description

This course will introduce the student to general pharmacology including drug classification, uses, actions, interactions, side effects, contraindications, and systemic and oral manifestations. Administration of local anesthesia as it relates to dental hygiene therapy will be addressed. Emphasis is placed on drugs commonly used in dentistry and those which modify dental care procedures. Laboratory sessions will include concepts and practice in the delivery of local anesthesia.

Requisite

Prerequisite: DHY-117

Focus

The course focus is on the understanding of pharmacology, administration of local anesthetics as it pertains to diseases relating to dental hygiene. Theories and assessments are applied. Instructional strategy will include lectures, study objectives quizzes, and enrichment projects.

Student Contribution

The student will actively participate in all selected readings, assignments, and course activities.

Evaluation

The student will be evaluated according to the criteria established in the course objectives. A course schedule will be provided at the beginning of the term. Course evaluations will be based on quizzes, activities, and exams.

The final grade will be based on the following: A=93-100%, B=85-92%, C=78-84%, D=75-77%, and F=0-74%.

Student Learning Outcomes

1. use the PDR to identify drugs and their effects

2. compare the absorption, distribution, metabolism, and excretion of drugs by the body
3. list and describe characteristics of drug actions
4. examine factors that influence drug effects
5. identify types of adverse reactions and methods for avoiding and treating them
6. recognize the parts of a prescription including abbreviations
7. review the actions of the sympathetic and parasympathetic divisions of the autonomic nervous system
8. analyze commonly used adrenergic and adrenergic blocking agents including their actions, adverse effects, and interactions with other drugs
9. discriminate perception and reaction as components of the pain response
10. analyze commonly used analgesics including their actions, adverse effects, and interactions with other drugs
11. differentiate, assemble and administer commonly used general and local anesthetics including their actions, adverse effects, and interactions with other drugs
12. compare indications and contraindication for use of antibiotics
13. discuss the selection of an antimicrobial agent
14. assess commonly used antibiotics, anti-infective, anti-viral, and anti-fungal agents including their mechanisms of action, adverse effects, uses, and interactions with other drugs
15. select the appropriate prophylactic use of antibiotics including the agent of choice and the regimen to be followed
16. select and administer anesthetics and nitrous oxide sedation for anxiety control in dentistry
17. compare commonly used sedative-hypnotic and anti-anxiety drugs including their actions, adverse effects, and interactions with other drugs
18. set up and demonstrate the use of nitrous oxide sedation including its advantages, disadvantages, indications, and contraindications
19. measure the effects of various chronic diseases on the oral cavity and dental treatment

competencies

- comp 1. assembly of nitrous tank equipment
- comp 2. administration of nitrous oxide
- comp 3. administration of local anesthetic
- comp 4. assemble/disassemble/disposal of local anesthetic
- comp 5. dental chart recording

Assessment

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DHY208
Periodontology

Credit: 2.00
Lecture Hours: 32.00
Lab Hours: 0
Clinical Hours: 0
Work Exp. Hours: 0
Course Fees: 0

External Impact

Instruction Resources General

Text References

1. Beemsterboer, P. & Perry, D.. *Periodontology for the dental hygienist*, 4th Elsevier, 2014
2. Darby, M.& Walsh, M.. *Dental hygiene theory and practice*, 4th Elsevier, 2015

Description

This course is a study of the basic etiology and current classification of periodontal disease. Emphasis will be placed on clinical and histological characteristics of periodontal disease processes, including discussion of contemporary periodontal practices.

Requisite

Prerequisite: DHY-229

Focus

The focus of this course is on the understanding of periodontal diseases and diagnostics. Instructional strategy will include lectures and study objectives.

Student Contribution

The student will actively participate in all selected readings, assignments and course activities.

Evaluation

The student will be evaluated according to the criteria established in the course objectives. A course schedule will be provided at the beginning of the term. Course evaluation will be based on quizzes, activities, and exams.

The final grade will be based on the following: A=93-100%, B=85-92%, C=78-84%, D=75-77%, and F=0-74%.

Student Learning Outcomes

1. compare the connective tissues of the normal periodontium to those having periodontal diseases
2. describe the physiology of bone formation and remodeling
3. describe the role of bacteria in the initiation and progression of periodontal disease
4. compare the composition and formation of supragingival and subgingival plaque
5. describe the histopathological changes of the periodontium during gingivitis and periodontitis
6. discuss the relationship of the inflammatory response to periodontal diseases

7. discuss the relationship of the immune host response to periodontal diseases
8. describe a comprehensive classification of periodontal diseases
9. compare the AAP's latest classification system based on clinical, radiographic, and historical data vs. the former one based upon client's age
10. categorize client cases utilizing common features of periodontal diseases and AAP's criteria
11. describe and demonstrate the procedure for obtaining information from the medical and dental histories, oral radiographic examination, indices, and periodontal chartings
12. evaluate radiographs for alterations in the teeth and periodontium
13. identify risk factors related to the development and treatment outcome of periodontal diseases
14. discuss the interrelationship between occlusal trauma and periodontitis
15. describe the role of the dental hygienist in occlusal therapy
16. compare the types of gingivitis according to the AAP's classification system
17. review case-based scenarios of extra and intraoral examinations identifying normal and abnormal conditions and determine the dental hygiene diagnosis, the dental hygiene care plan, intervention, and evaluation plan
18. compare the types of periodontitis according to the AAP's classification system
19. determine the significance of gingival recession as it relates to periodontal diseases

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DHY245
Ethics and Jurisprudence

Credit: 2.00
Lecture Hours: 32.00
Lab Hours: 0
Clinical Hours: 0
Work Exp. Hours: 0
Course Fees: 0

External Impact
NA

Instruction Resources General

Text References

1. Kimbrough, V. & Lautar, C.. *Ethics, jurisprudence, and practice management in dental hygiene*, Pearson, 2007

Description

This course will include resources and processes for board application and licensure requirements, qualifications for practice, and standards of practice. Other topics will include cultural diversity, legal and ethical responsibilities and sexual harassment.

Requisite

Prerequisite: DHY-229

Focus

The focus of this course is on the application of legal and ethical situations that arise in the dental setting. Theories, legal and ethical scenarios are applied.

Student Contribution

The student will actively participate in all selected readings, assignments, and course activities.

Evaluation

The student will be evaluated according to the criteria established in the course objectives. A course schedule will be provided at the beginning of the term. Course evaluation will be based on quizzes, activities, and exams.

The final grade will be based on the following: A=93-100%, B=85-92%, C=78-84%, D=75-77%, and F=0-74%.

Student Learning Outcomes

1. compare the ethical standard theories
2. state the basic principles of dental jurisprudence
3. describe the legal responsibilities of the dentist or dental hygienist/patient relationship
4. solve ethical dilemmas using a decision-making process
5. identify the portions of Iowa's Rules and Regulations that pertain to the practice of the dental hygienist
6. interpret Iowa's Rules and Regulations pertaining to the practice of dental hygiene
7. compare Iowa's Rules and Regulations for dental hygienists to another state's practice act
8. compare the Board of Dentistry's control over dental hygiene with the sources of control

affecting other allied health professions

9. differentiate between the Board of Dentistry and the professional organizations for dentistry and dental hygiene

10. define the purpose and structure of the professional organizations for dental hygienists

11. review and explain the organizations' position regarding licensure, dental hygiene education, professional preparation, continuing education, community dental health, and scope of practice

12. apply the Code of Ethics as professional standards for providing care

13. determine how dental hygiene can best represent its interests and the public interest in assuming more responsibility for dental hygiene practice

14. identify current dental/dental hygiene situations which have philosophical and ethical basis for debate

15. interpret and apply the ADEA's "Core Competencies for Entry-level Dental Hygienist"

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DHY290
Dental Hygiene Practicum I

Credit: 6.00
Lecture Hours: 0
Lab Hours: 0
Clinical Hours: 252.00
Work Exp. Hours: 0
Course Fees: \$600.00

External Impact

Instruction Resources General

Text References

1. Beemsterboer, P. & Perry, D.. *Periodontology for the dental hygienist*, 3rd Elsevier, 2007
2. Darby, M. & Walsh, M.. *Dental hygiene theory and practice*, 4th Elsevier, 2014
3. Jeske, A.. *Mosby dental drug reference*, 11th Elsevier, 2014

Description

The course will provide necessary instruction and supervised practice in our on-campus dental clinic. This course is designed to prepare the student to assume the role as preventative care provider. Emphasis will be placed on patient selection and treatment, clinical time management and office operations. Competency is achieved on manikins and clinic patients.

Requisite

Prerequisite: DHY-185

Focus

The course focus is to provide client centered care and facilitate client access to oral health services, the provision of oral health care, and to apply the planning, implementation, and evaluation phases.

Student Contribution

The student will actively participate in all selected readings, assignments, and course activities.

Evaluation

The student will be evaluated according to the criteria established in the course objectives. A course schedule will be provided at the beginning of the term. Course evaluation will be based on clinical competencies, activities, and clinical mock board exam.

The final grade will be based on the following: A=93-100%, B=85-92%, C=78-84%, D=75-77%, and F=0-74%.

Student Learning Outcomes

1. demonstrate the initial and ongoing client assessment procedures
2. demonstrate proficiency of writing the dental hygiene presumptive diagnosis, intervention, and care plan for clients presenting with health to early periodontitis conditions
4. demonstrate writing the dental hygiene presumptive diagnosis, intervention, and care plan for clients with moderate to severe periodontitis conditions
5. present the planned treatment to the client
6. utilize the client's assessment data to determine the dental health education needs of the client

7. demonstrate the oral hygiene instructions needed for the client
8. select interceptive management of client behavior for reduction of cavities and periodontal disease
9. demonstrate proficiency of debriding (scaling) and detoxification (root planing) utilizing manual and mechanical procedures

Competencies:

- comp 1. instrumentation
- comp 2. instrumentation power scale
- comp 3. air abrasive on typodont
- comp 4. air abrasive on patient
- comp 5. care planning gingivitis
- comp 6. care planning behavior change
- comp 7. case presentation gingivitis risk
- comp 8. case presentation behavior change
- comp 9. four handed dental hygiene
- comp 10. dentin desensitizing
- comp 11. process examination

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DHY258
Community Health Concepts

Credit: 2.00
Lecture Hours: 16.00
Lab Hours: 32.00
Clinical Hours: 0
Work Exp. Hours: 0
Course Fees: \$200.00

External Impact
NA

Instruction Resources General

Text References

1. Geurink, K.. *Community oral health practice for the dental hygienist* , 3rd Elsevier,

Description

This course will emphasize the principles, theories and concepts of community oral health as well as the methods for determining community oral health status, identifying barriers to optimum health and selecting appropriate interventions. Student will work in teams to develop and implement a series of programs to present to community organizations and public schools.

Requisite

Prerequisite: DHY-245

Focus

The course focus is to understand and facilitate client access to oral health services by influencing individuals and organizations for the provision of oral health care and to apply the planning, implementation and evaluation phases of a community health program.

Student Contribution

Provide dental hygiene care to community clinics

Evaluation

The student will be evaluated according to the criteria established in the course objectives. A course schedule will be provided at the beginning of the term. Course evaluation will be based on quizzes, activities, and exams.

The final grade will be based on the following: A=93-100%, B=85-92%, C=78-84%, D=75-77%, and F=0-74%.

Student Learning Outcomes

1. promote the values of oral and general health and wellness to the public and organizations within and outside the profession
2. respect the goals, values, beliefs, and preferences of the patient or client while promoting optimal oral and general health
3. identify individual and population risk factors, and develop strategies that promote health-related quality of life

4. assess the oral health needs of the community with the quality and availability of resources and services
5. provide screening, referral, and educational services that allow clients to access the resources of the health care system
6. demonstrate competency in providing client-centered care under the supervision of clinical faculty in community settings that have a variety of clients who may be elderly, culturally diverse, have special needs, or dentally indigent
7. facilitate client access to oral health services by influencing individuals and organizations for the provision of oral health care
8. evaluate reimbursement mechanisms and their impact on the patient or client's access to oral health care
9. evaluate the outcomes of community-based programs and plan for future activities
10. determine the outcomes of dental hygiene interventions using indices, instruments, examination techniques, and the patient or client self-report
11. identify alternative career options within health care, industry, education, and research, and evaluate the feasibility of pursuing dental hygiene opportunities
12. develop management and marketing strategies to be used in nontraditional health care settings
13. access professional and social networks and resources to assist entrepreneurial initiatives

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DHY310
Dental Hygiene Practicum II

Credit: 6.00
Lecture Hours: 0
Lab Hours: 0
Clinical Hours: 252.00
Work Exp. Hours: 0
Course Fees: \$600.00

External Impact

Instruction Resources General

Text References

1. Darby, M. & Walsh, M.. *Dental hygiene theory and practice*, 4th Elsevier,
2. Jeske, A.. *Mosby dental drug reference*, 11th Elsevier, 2014

Description

The course will provide necessary instruction and supervised practice in our on-campus dental clinic. This course is designed to prepare the student to assume the role of preventative care provider. Emphasis will be placed on planning treatment for patient with special needs, complex periodontal cases, disease management and initial periodontal therapy. Competency is achieved on clinic patients.

Requisite

Prerequisite: DHY-290

Focus

The course focus is to provide client-centered care and to facilitate client access to oral health services, to provide oral health care and to apply the planning, implementation and evaluation phases.

Student Contribution

The student will actively participate in all selected readings, assignments, and course activities.

Evaluation

The student will be evaluated according to the criteria established in the course objectives. A course schedule will be provided at the beginning of the term. Course evaluation will be based on clinical competencies, activities, and clinical mock board exam.

The final grade will be based on the following: A=93-100%, B=85-92%, C=78-84%, D=75-77%, and F=0-74%.

Student Learning Outcomes

1. produce exit level mastery of the initial and ongoing client assessment procedures
2. produce exit level mastery of writing the dental hygiene presumptive diagnosis, intervention, and care plan
3. present the planned treatment to the client
4. utilize the clients assessment data to determine the dental health education needs of the client
5. demonstrate the oral hygiene instructions needed for the client
6. provide interceptive management of client behavior for reduction of cavities and periodontal

disease

7. provide therapy for the elimination of habits that are potentially harmful to the dentition/oral cavity
8. produce exit level mastery of debriding (scaling) and detoxification (root planing) utilizing manual and mechanical procedures
9. produce exit level mastery of total client care utilizing other clinical dental hygiene procedures as indicated in the class assignment schedule
10. produce exit level mastery in dental hygiene clinical skills by completing process evaluations (direct observations)
11. produce mastery of sterilization, assisting, and clerical responsibilities
12. evaluate completion of the minimum hours in the clinical setting providing client care as outlined in the class assignment schedule
13. complete the seminar objectives as outlined in the class assignment schedule
14. produce exit level mastery of professional conduct

Assessment

Indian Hills Community College conducts assessment of student learning in order to determine whether students are meeting course, divisional, and institutional goals. From time to time, some of the activities and assignments that we do will be used to assess these goals. While assessment results may be shared with others at the college, your personal results will remain confidential.

Non-Discrimination Statement

It is the policy of Indian Hills Community College to provide equal educational and employment opportunities and not to illegally discriminate on the basis of age, race, creed, color, sex, sexual orientation, gender identity, marital status, national origin, religion, genetic information or disability in its educational programs, activities or its employment and personnel policies. It is the further policy of Indian Hills Community College that no retaliatory action shall be taken against any person exercising their rights as an employee or student irrespective of the outcome of any procedure instituted hereunder.

Inquiries or grievances related to this policy may be directed to Bonnie Campbell, Director of Human Resources/Equity Coordinator, 525 Grandview, Ottumwa, IA 52501, 641-683-5108; the Director of the Iowa Civil Rights Commission in Des Moines; the Director of the Region VII Office of the United States Equal Employment Opportunity Commission or the Director of the Region VII Office of Civil Rights, United States Department of Education in Kansas City, Missouri.

Disability Services/Accommodations

Individuals with disabilities who require accommodations or special services should contact IHCC Disability Services for assistance. Services are available to students who need classroom accommodations, interpreters, and/or specialized equipment.

Students enrolling in credit programs should make their requests for accommodations at the time they are applying for admission and preferably, no later than six weeks prior to the beginning of each academic term. All student requests are dealt with in a confidential manner. Students should contact the Ottumwa Disabilities Center by calling 641-683-5749. Centerville students should contact the Academic SUCCESS Center at 641-856-2143, ext. 2214 or email disabilityservices@indianhills.edu.

DHY315
Seminar for Dental Hygiene

Credit: 1.00
Lecture Hours: 16.00
Lab Hours: 0
Clinical Hours: 0
Work Exp. Hours: 0
Course Fees: 0

External Impact

Instruction Resources General

Text References

1. Beemsterboer, P.. *Ethics and law in dental hygiene*, Elsevier, 2014
2. Darby, M. & Walsh, M.. *Dental hygiene theory and practice*, 4th Elsevier, 2015

Description

This seminar course is a capstone course which will encompass the dental hygiene curriculum. Preparing for the state hygiene board examination will be discussed. Standards for proper patient selection and case studies will be shared and analyzed. Students will also prepare for a career as a dental hygienists. Students will prepare letters of application, resumes, professional portfolios and participate in a a mock interview experience.

Requisite

Prerequisite: DHY-245

Focus

The course focuses on program capstone, interview process, and dental hygiene national board preparation.

Student Contribution

The student will actively participate in all selected readings, assignments, and course activities.

Evaluation

The student will be evaluated according to the criteria established in the course objectives. A course schedule will be provided at the beginning of the term. Course evaluation will be based on quizzes, activities, and exams.

The final grade will be based on the following: A=93-100%, B=85-92%, C=78-84%, D=75-77%, and F=0-74%.

Student Learning Outcomes

1. develop risk management in the dental office
2. develop a rewarding patient relationship
3. design a cover letter and resume
4. complete a mock interview with self-marketing skills
5. apply the business aspects of dental hygiene

Assessment

Indian Hills Community College conducts assessment of student learning in order to determine whether students are meeting course, divisional, and institutional goals. From time to time, some of the activities and assignments that we do will be used to assess these goals. While assessment results may be shared with others at the college, your personal results will remain confidential.

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