

Montgomery County Community College
DHG 111
Dental Anatomy
2-2-0

COURSE DESCRIPTION:

This course is designed to familiarize the dental hygiene student with all phases of dental anatomy. Topics of study include gross anatomy, nomenclature, eruption sequence, morphology and physiology of the oral structures with emphasis on the primary and permanent dentitions, occlusion, an overview of the temporomandibular joint, and anomalies of the oral structures. The coronal structure and root morphology for individual teeth will be addressed and related to direct patient care procedures.

REQUISITES:*Previous Course Requirements*

- ENG 010A Basic Writing or ENG 011 Basic Writing II or ESL 011 Basic Writing II
- MAT 011 Beginning Algebra or MAT 011B Beginning Algebra with Review of Arithmetic
- REA 011 Fundamentals of College Reading or REA 017 Vocabulary and Reading Comprehension Development II

Previous or Concurrent Course Requirements

- DHG 100 Theory and Practice of Dental Hygiene I
- DHG 155 Dental Radiology

COURSE COMMENT

Registration requires completion of Special Admission Guidelines and admission to the Dental Hygiene Program

LEARNING OUTCOMES Upon successful completion of this course, the student will be able to:	LEARNING ACTIVITIES	EVALUATION METHODS
1. Identify anatomy and anomalies of the oral cavity.	Computer Activities Classroom Lecture PPT Presentations Models of Teeth and Skulls 3D Tooth Atlas Clinical Experiences Clinical Observations Practice(Lab)Exercises Assigned Readings Handouts	Clinical Observations Practice (Lab) Exercises Quizzes Examinations Tooth IDs

LEARNING OUTCOMES	LEARNING ACTIVITIES	EVALUATION METHODS
2. Explain all aspects of the primary and permanent dentitions.	Classroom Lecture PPT Presentations Computer Activities Models of Teeth 3D Tooth Atlas Clinical Observations Practice (Lab) Exercises Assigned Readings Textbook Worksheets Tooth ID Practice Handouts	Clinical Observations Practice (Lab) Exercises Quizzes Examinations Tooth IDs Worksheets Discussion Post
3. Demonstrate a working knowledge of occlusion.	Computer Activities Classroom Lecture PPT Presentations Models of Teeth Clinical Observations Practice (Lab) Exercises Assigned Readings Handouts	Practice (Lab) Exercises Computer Activities Examination Model IDs
4. Discuss the structure of the temporomandibular joint.	Classroom Lecture PPT Presentation Models of Skulls Clinical Observations Practice Exercises Assigned Readings Discussion Board Questions Handouts	Practice (Lab) Exercises Examination Discussion Board Posting
5. Describe coronal structures and root morphology and how they relate to direct patient care.	Classroom Lecture PPT Presentations Models of Teeth Computer Activities Clinical Observations Practice (Lab) Exercises Assigned Readings Extramural Interview Discussion Board Questions Handouts	Practice (Lab) Exercises Clinical Observations Examination Tooth IDs Discussion Board Posting

At the conclusion of each semester/session, assessment of the learning outcomes will be completed by course faculty using the listed evaluation method(s). Aggregated results will be submitted to the Associate Vice President of Academic Affairs. The benchmark for each learning outcome is that *70% of students will meet or exceed outcome criteria.*

SEQUENCE OF TOPICS:

1. Oral Cavity Structures
2. Tooth Structure
3. Types of Teeth
4. Landmarks of Teeth
5. Coding of Dentitions
6. Eruption Patterns
7. Fundamental and Preventive Curvatures
8. Occlusion
9. Permanent Incisors
10. Permanent Canines
11. Permanent Premolars
12. Permanent Molars
13. Periodontal Considerations
14. Deciduous Dentition
15. Temporomandibular Joint
16. Dental Anomalies

LEARNING MATERIALS:

Texts:

Scheid, R. C., & Weiss, G. (2017). *Woelfel's Dental Anatomy* (9th ed.). Philadelphia, PA: Wolters Kluwer.

Brand, R.W. & Isselhard, D.E. (2003). *Anatomy of Orofacial Structures* (7th ed.). St. Louis: C.V. Mosby Co.

Brown & Herbanson. *3-D Interactive Tooth Atlas*. Version 5.0.

Additional References:

Daniel, S.J. & Harfst, S.A. (2008). *Mosby's Dental Hygiene Concepts, Cases and Competencies* (2nd ed.). St. Louis: Mosby Inc.

Scheid, Rickne C. (2011). *Woelfel's Dental Anatomy. Its Relevance to Dentistry* (8th ed.). Philadelphia: Lippincott Williams and Wilkins.

Wilkins, Esther M. (2012). *Clinical Practice of the Dental Hygienist* (11th ed.). Philadelphia: Lippincott Williams and Wilkins.

Course enhancement through the use of Blackboard, an online course management platform.

Other learning materials may be required and made available directly to the student and/or via the College's Libraries and/or course management system.

COURSE APPROVAL:

Prepared by: Jan S. Greenlee, RDH, M.S.	Date: 3/20/1998
Revised by: Nancy Moore Yaskowski, RDH, M.Ed.	Date: 9/10/2004
Revised by: Nancy Moore Yaskowski, RDH, M.Ed.	Date: 1/2009
VPAA/Provost Compliance Verification: Dr. John C. Flynn, Jr.	Date: 9/11/2009
Revised by: Jenny Sheaffer	Date: 10/16/2012
VPAA/Provost or designee Compliance Verification: Victoria L. Bastecki-Perez, Ed.D.	Date: 11/1/2012
Revised by: Linda Teal Mercer	Date: 12/18/2017
VPAA/Provost or designee Compliance Verification:	Date: 1/30/2018



This course is consistent with Montgomery County Community College's mission. It was developed, approved and will be delivered in full compliance with the policies and procedures established by the College.