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.

PREREQUISITE(S):

MAT 080 – Fundamentals of Mathematics, or MAT 011 – Beginning Algebra, or MAT 011B - Beginning Algebra with Review of Arithmetic with a minimum grade of "C." Placement score information can be found on the ACT335 document linked to the online course description.

Official Final High School Transcript or GED Transcript.

High School Chemistry or CHE 121 – General Chemistry – Inorganic (or higher) within 5 years with a minimum grade of "C."

BIO 131 – Human Anatomy & Physiology I, BIO 132 - Human Anatomy & Physiology II, and BIO 140 – Microbiology and Immunology within 5 years with a minimum grade of "B" in one course, with a minimum grade of "C" in the 2nd and 3rd courses. Must be completed within two attempts.

ENG 101 – English Composition I with a minimum grade of "C."

ESW 206 – Basic Nutrition with a minimum grade of "C."

TEAS®. Comprehensive Score of 50 or higher and TEAS®. Reading Comprehensive Score of 75 (or higher) withing 3 years. Must be completed within 2 attempts. See the TEAS® Information Packet. Please note there is a fee for the TEAS®.

CO-REQUISITE(S):
DHG 100 - Theory and Practice of Dental Hygiene
DHG 113 - Dental Histology and Embryology
DHG 155 - Dental Radiology

LEARNING OUTCOMES	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
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 temperomandibular 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	Practice (Lab) Exercises Clinical Observations Examination Tooth IDs Discussion Board Posting

	Assigned Readings Extramural Interview Discussion Board Questions Handouts	

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:
Required Materials:
- Scheid, R. C., & Weiss, G.). *Woelfel's Dental Anatomy* (9th Enhanced ed.). Wolters Kluwer. 2017
- *3-D Tooth Atlas 9.* eHuman Digital Anatomy

Additional References:
- Boyd, Linda, Mallonee, Lisa and Wyche, Charlotte. *Wilkins' Clinical Practice of the Dental Hygienist*, Fourteenth Edition, Massachusetts: Jones and Bartlett Learning, 2023

Course enhancement through the use of Canvas, 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:	Victoria L. Bastecki-Perez, Ed.D.	Date: 1/30/2018
Revised by:	Deborah Gnutti	Date: 3/25/2024
VPAA/Provost or designee Compliance Verification:		Date: 3/2024
Revised by:	Deborah Gnutti	Date: 2/26/2025
VPAA or designee Compliance Verification:		Date: 3/20/2025

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.