

Virginia Western Community College

DNH 214

Practical Materials for Dental Hygiene

PREREQUISITES

DNH 111; DNH 115; DNH 120; DNH 130; DNH 190; DNH 141; DNH 142; DNH 143

COURSE DESCRIPTION

Studies the current technologic advances, expanded functions, and clinical/laboratory materials used in dental hygiene practice. Provides laboratory experience for developing skills in the utilization and applications of these technologies and functions.

Semester Credits: 2 Lecture Hours: 1 Lab: 1

REQUIRED MATERIALS

Textbooks:

- Dental Materials. Clinical Applications for Dental Assistants and Dental Hygienists by Hatrick, Eakle, and Bird. 4th edition ISBN:9780323596602
- Clinical Practice of the Dental Hygienist by Boyd. 13th edition ISBN: 9781496396273 Jones & Bartlett Learning
- Virginia Western Community College, Dental Hygiene Student Guidelines and Procedures Manual (current cohort edition)

COURSE OUTCOMES

At the completion of this course, the student should be able to:

- Gain knowledge to apply the current technologic advances, expanded functions, and clinical application for the materials used in dentistry and dental hygiene practice.

STUDENT LEARNING OUTCOMES

DOMAIN: PROFESSIONAL COMMITMENT AND DEVELOPMENT

The dental hygiene graduate must be able to:

1. Evaluate professional issues and scientific literature to make evidence-based decisions.

DOMAIN: DENTAL HYGIENE PROCESS OF CARE

1. Provide accurate, consistent & complete documentation for assessment, diagnosis, planning, implementation, evaluation & documentation of dental hygiene services.
3. Utilize critical thinking and problem-solving skills.

DOMAIN: HEALTH PROMOTION AND COMMUNITY INVOLVEMENT

3. Provide screening, referral and educational services that allow patients to access the resources of the health care system.

TOPICAL DESCRIPTION

1. "Introduction to Dental Materials
2. Oral Environment and Patient Considerations/ Physical Properties of Dental Materials
3. General Handling and Safety
4. Principles of Bonding
5. Composites, Glass Ionomers and Compomers
6. Preventive and Desensitizing Materials
7. Abrasion, Finishing and Polishing
8. Whitening Materials and Procedures
9. Preventive and Corrective Oral Appliances
10. Dental Implants
11. Polymers for Prosthetic Dentistry
12. Impression Materials/Gypsum and Wax Products
13. Provisional Restorations
14. Casting Metals, Solders and Wrought Metal Alloys
15. Dental Ceramics/Dental Cement
16. Dental Amalgam

Laboratory

1. Lab Orientation and Safety
2. Air Polish & Seal Plastic Tooth
3. Laser Orientation & Safety
4. Vacu-form Use/Safety and Tray or Guard Creation (on a faculty provided cast model)
5. Utilization of Surgical Scissors and Torches for trays or guards
6. Alginate manipulation and impressions on a Mannequin
7. Manipulating and Pouring stone with Mannequin impression.
8. Manipulating and Pouring plaster for Ideal Model Creation
9. Review of cast separation and trimming
10. Classmate alginate impressions (1 maxillary & 1 mandibular)
11. Pouring, separate, trimming and fine-tune of class-mates stone casts.