

**STATE UNIVERSITY OF NEW YORK  
COLLEGE OF TECHNOLOGY  
CANTON, NEW YORK**



**COURSE OUTLINE**

**DHYG 250 – CLINICAL DENTAL HYGIENE II LECTURE/LAB**

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**SCHOOL OF SCIENCE, HEALTH & CRIMINAL JUSTICE  
DENTAL HYGIENE AAS PROGRAM  
MARCH 2015**

**DHYG 250 – DENTAL HYGIENE II LECTURE/ LAB**

- A. **TITLE:** DENTAL HYGIENE II LECTURE/ LAB
- B. **COURSE NUMBER:** DHYG 250
- C. **CREDIT HOURS:** 2
- D. **WRITING INTENSIVE COURSE:** No
- E. **COURSE LENGTH:** 15 WEEKS
- F. **SEMESTER(S) OFFERED:** FALL
- G. **HOURS OF LECTURE, LABORATORY, RECITATION, TUTORIAL, ACTIVITY:**  
ONE (1) HOUR OF LECTURE EACH WEEK AND 45 HOURS OF LAB ACTIVITIES
- H. **CATALOG DESCRIPTION:** This course provides an opportunity for the dental hygiene student to practice and master proper technique when managing pain during a dental hygiene appointment. Successful completion of this course (mandatory C or better) will enable the student to qualify for NYS certification in local anesthesia. Emphasis will also be placed on the following dental hygiene skills: extrinsic stain removal, utilization of the intraoral camera, management of the geriatric patient, advanced instrumentation techniques utilized when providing hygiene services for periodontally involved patients, utilization of noninvasive diagnostic tools to aid in the assessment of dental caries; and the technique for exposing and storing digital radiographs. One hour of lecture each week and 45 hours of lab activities.
- I. **PRE-REQUISITES/CO-COURSES:** **Pre-requisite:** matriculation in dental hygiene. **Co-requisite:** DHYG 251 Clinical Dental Hygiene II or permission of instructor.
- J. **GOALS (STUDENT LEARNING OUTCOMES):** By completion of this course, the student will meet the following course learning outcomes which are linked to the institutional learning outcomes. This course provides foundational knowledge for performing the following dental hygiene program competencies: 1.2, 1.3, 1.5, 1.12, 2.1, 2.3, 3.7, 5.3, 6.3, 6.4, 6.5 and 8.3.

Student Learning Outcomes	Institutional Outcomes
1. Discuss and demonstrate various treatment options for managing sensitivity and pain discomfort during a hygiene appointment.	3. Prof Competency
2. Discuss and demonstrate the various options for removing calcareous deposits and extrinsic stains in the clinical setting.	3. Prof Competency
3. Utilize proper technique when completing the components of a comprehensive periodontal chart.	3. Prof Competency
4. Describe and demonstrate various options for evaluating and documenting suspicious pathology in the clinical setting.	3. Prof Competency
5. Discuss proper management of oral conditions often observed in the elder population.	3. Prof Competency
6. Discuss and demonstrate various treatment options to assess a patient's risk and/or presence of dental caries.	3. Prof Competency

- K. **TEXTS:**  
Malamed, Stanley. Handbook of Local Anesthesia, 6<sup>th</sup> Edition, Lippincott. Williams and Wilkins, 2009.

Most current copy of the Dental Hygiene Department's Evaluation Manual.

Wilkins, Esther. Clinical Practice of the Dental Hygienist, 11<sup>th</sup> Edition, Lippincott, Williams and Wilkins, 2013.

**L. REFERENCES:**

Nield-Gehrig, Jill. Fundamentals of Periodontal Instrumentation, 7<sup>th</sup> Edition, Lippincott Williams and Wilkins, 2013

**M. EQUIPMENT:** an aspirating syringe for administering local anesthesia, personal protective equipment including a face shield, a furcation probe.

**N. GRADING METHOD:** A – F A letter grade will be issued utilizing the following conversion table. All students must achieve a minimum C grade in this course.

A	94 - 100
B+	90 - 93
B	84 - 89
C+	80 - 83
C	75 - 79
D	74 - 70
F	69 or lower

**O. MEASUREMENT CRITERIA/METHODS:**

Homework Assignments  
Review of Journal Articles  
Punctuality and Participation in Lab Activities  
Lab Skill Evaluations  
Exams  
Power point presentation on a culture

**P. DETAILED OUTLINE OF LECTURES:**

**I. Care of the Elderly Patient**

- A. Biological and Chronological Aging
- B. Physiologic Aging
- C. Common Chronic Diseases
- D. Osteoporosis
- E. Alzheimer's Disease
- F. Oral Findings in Aging
- G. Dental Hygiene Care for the Aging Patient
- H. Diet & Nutrition for the Aging Patient

**II. Advanced Instrumentation**

- A. Hoes, Chisels and Files
- B. Rigid Shanks
- C. Gracey 17/18
- D. ProDentic Unit

**III. Nonsurgical Periodontal Instrumentation**

- A. Treatment Planning Quadrant Scaling
- B. Recall Intervals
- C. Perio Maintenance Appointments

**IV. Air Polishing**

- A. Principles of Application

- B. Uses and Advantages
- C. Recommendations and Precautions
- D. Contraindications
- E. Proper Technique

**V. Dentinal Hypersensitivity**

- A. Etiology
- B. Anatomy of Tooth Structures
- C. Hydrodynamic Theory
- D. Differential Diagnosis
- E. Management of Hypersensitivity

**VI. Cultural Considerations**

- A. Effects of Culture on Oral Health Status
- B. Displaying Cultural Sensitivity
- C. Linguistic Competence
- D. Oral Health Disparities
- E. Using an Interpreter
- F. Family Decision Making

**VII. Evaluation & Documentation of Lesions**

- A. Brush Biopsy
- B. Visilite
- C. VELscope
- D. Intraoral Camera

**VIII. Diagnostic Tools for Assessing Risk for Caries**

- A. Saliva Testing
- B. Utilization of the DIAGNOdent

**IX. Intraoral Digital Imaging**

- A. Basic Concepts & Terminology
- B. Purpose and Use
- C. Fundamentals & Equipment
- D. Exposure of Films
- E. Types of Digital Imaging
- F. Sensor Preparation & Placement
- G. Advantages & Disadvantages
- H. Recognize and Correct Errors
- I. Proper Mounting in Eaglesoft

**Q. LABORATORY OUTLINE:**

Lab #1: Demonstration of loading of syringe, practice on typodont, proper technique for needle recapping, disposal of cartridge and needles in sharps container, proper documentation on patient's chart.

Lab #2: Partner practice on mandible (vital signs and administration of topical and local anesthesia)

Lab #3: Partner practice on mandible (vital signs and administration of topical and local anesthesia)

Lab #4: Partner practice on maxilla (vital signs and administration of topical and local anesthesia)

Lab #5: Partner practice on maxilla (vital signs and administration of topical and local anesthesia)

Lab #6: Demonstration and partner practice with DIAGNOdent for caries detection

Lab #7: Demonstration and partner practice with Cetacaine and Oraqix; oral irrigation with CHX

Lab #8: Demonstration and partner practice with air polishing unit and finishing strips

Lab #9: Demonstration and partner practice with furcation probe and comprehensive periodontal charting

Lab #10: Demonstration and partner practice with desensitizing agents

Lab #11: Demonstration and partner practice with intraoral camera and digital x-ray unit

Lab #12: Demonstration and partner practice with Visilite and VELscope Unit

Lab #13: Cultural Presentations

Lab #14: Completion of Chart Audit