

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



COURSE OUTLINE

DHYG 350 CURRENT ISSUES IN PERIODONTICS

**Prepared By: Pamela Quinn R.D.H., BSE, MSED
Revised by Susan Willette, R.D.H., M.S. Ed.D.**

**SCHOOL OF SCIENCE, HEALTH & CRIMINAL JUSTICE
BTECH DENTAL HYGIENE
March 2015**

DHYG 350 CURRENT ISSUES IN PERIODONTOLOGY

- A. **TITLE:** Current Issues in Periodontology
- B. **COURSE NUMBER:** DHYG 350
- C. **CREDIT HOURS:** 3
- D. **WRITING INTENSIVE COURSE:** NO.
- E. **COURSE LENGTH:** 15 weeks
- F. **SEMESTER(S) OFFERED: Indicate:** Fall,
- G. **HOURS OF LECTURE, LABORATORY, RECITATION, TUTORIAL, ACTIVITY:**
3 hours lecture per week
- H. **CATALOG DESCRIPTION:** Students taking this course will research and discuss current studies in periodontology and related disciplines to identify factors which may modify theory or practice. Focus will be placed on the relationship of periodontal health to systemic health, current concepts in etiology, risk factors, assessment, and treatment.
- I. **PRE-REQUISITES/CO-COURSES:** Junior level status in Dental Hygiene
- J. **GOALS (STUDENT LEARNING OUTCOMES):**

Course Objectives	Institutional Student Learning Outcomes
Conduct a review of the literature in periodontology and assess the validity of findings.	2. Critical Thinking 3. Professional Competence
Utilize valid studies to identify factors which may modify current theory and practice in periodontology.	2. Critical Thinking 3. Professional Competence
Explain the relationship of periodontal health to systemic health.	1. Communication 2. Critical Thinking 3. Professional Competence 4. Inter-Intrapersonal Skills
Discuss the current concepts of the etiology of periodontal disease and identify changes from earlier theory and concepts.	1. Communication 2. Critical Thinking 3. Professional Competence 4. Inter-Intrapersonal Skills
Identify periodontal disease risk factors and develop a plan to help reduce these factors among a selected population.	2. Critical Thinking 3. Professional Competence
Compare and contrast the efficacy of the most current chemotherapeutic agents used in the treatment of periodontal diseases	2. Critical Thinking 3. Professional Competence
Analyze how periodontal therapy has changed in the last decade.	2. Critical Thinking 3. Professional Competence
Integrate current theory into practice.	2. Critical Thinking 3. Professional Competence

--	--

K. TEXTS: No Text Required. Since this is a course that addresses contemporary issues, students are expected to research current articles in various professional journals.

Students will be provided with selected readings from current journal articles and government documents.

L. REFERENCES: Historical Document Page last modified: March 30, 2009
Content source: [Division of Oral Health](#), [National Center for Chronic Disease Prevention and Health Promotion](#)

American Heart Association Statement. Periodontal Disease and Atherosclerotic Vascular Disease: Does Evidence Support an Independent Association? AHA 2012

M. EQUIPMENT: Access to a working computer with Internet capability. Most recent version of Internet Explorer preferred. Use of an operating system compatible with Angel such as Windows 2000, Windows XP or Mac OS X.)

N. GRADING METHOD: Indicate: A – F

O. MEASUREMENT CRITERIA/METHODS: Discussion Board Posts/Participation (Discussion Board Rubric)75%
Written Assignments 10% Quizzes 15%

P. DETAILED COURSE OUTLINE:

DETAILED TOPICAL OUTLINE:

- I. Advancements in Nonsurgical Periodontal Therapy
 - A. Periodontal Disease as an Infection
 - B. Greater Emphasis on Subgingival Biofilm
 - C. Utilization of Ultrasonic Scalers and Piezo Scalers
 - D. Lasers
 - E. Utilization of the Endoscope

- II. The Significance of Periodontal Infection in Patients with Cardiovascular Disease
 - A. Review of the Literature
 - B. Position Statement AHA
 - C. Role of Dental Professionals in Screening Patients for CVD
 - D. Strategies for Utilizing Dental Hygienist and Nurses as Screeners for Periodontal and Cardiovascular Diseases
 - E. Utilization of Testing in Dental Practices
 - F. Making Appropriate Referrals

- III. Periodontal Disease and the Diabetic Patient
 - A. Review of the Literature
 - B. Role of Dental Professionals in Screening Patients for Diabetes
 - C. Common Signs and Oral Conditions
 - D. Treatment Options

 - E. Utilizing Glucometers and HbA1c Analyzers Chairside

- IV. Periodontal Disease and Its Impact on Lung Diseases
 - A. Defining COPD and Nosocomic Pneumonia
 - B. Respiratory Pathogens in the Oral Cavity
 - C. Importance of Good Home Care
 - D. Association between Periodontitis and COPD
 - E. Association between Periodontitis and Nosocomic Pneumonia
 - F. Enzymes in Saliva that are Associated with Periodontal Disease
 - G. Treatment Options

- V. Women's Oral Health Needs
 - A. Hormonal Fluctuations
 - B. Puberty and Oral Health
 - C. Menstruation and Oral Health
 - D. Birth Control Pills and Oral Health
 - E. Pregnancy and Oral Health
 - F. Menopause and Oral Health
 - G. Dental Treatment Considerations During These Life Cycle Changes
 - H. Pros and Cons of Hormone Replacement Therapy
 - I. Effects of Eating Disorders on the Oral Cavity
 - J. Oral Conditions Prevalent in Victims of Domestic Violence

- VI. Link Between Periodontitis and Premature and Low Birth Weight Babies
 - A. Determining Gingival Health Early in the Pregnancy
 - B. Identifying Patients at Risk
 - C. Periodontitis and the Birth of Premature Babies
 - D. Periodontitis and Low Birth Weight Babies
 - E. Recommended Periodontal Therapy for the Pregnant Patient

- VII. Periodontal Management of HIV Infected Patients
 - A. Definitions
 - B. Drug Resistant HIV-1
 - C. Early Detection: Relationship Between Viral Suppression and Mortality
 - D. Suppressing the Viral Load
 - E. Approved Antiretrovirals
 - F. Oral Signs of HIV Infectivity
 - G. Long Term Health Issues
 - H. Support and Education

- VIII. Chemotherapeutic Agents in the Treatment of Periodontal Diseases
 - A. Systemic Administration of Antibiotics
 - B. Serial and Combinations Antibiotic Therapy
 - C. Host Modulation
 - D. Local Delivery of Antibiotics
 - E. Local Delivery of an Antiseptic Agent

- IX. Other Significant Issues as they Develop

Q. Laboratory Outline: N/A