



**Purpose:** It is the intention of this Administrative-Master Syllabus to provide a general description of the course, outline the required elements of the course and to lay the foundation for course assessment for the improvement of student learning, as specified by the faculty of Wharton County Junior College, regardless of who teaches the course, the timeframe by which it is instructed, or the instructional method by which the course is delivered. It is not intended to restrict the manner by which an individual faculty member teaches the course but to be an administrative tool to aid in the improvement of instruction.

**Course Title - Contemporary Dental Hygiene Care II**

**Course Prefix and Number - DHYG 2231**

**Department – Dental Hygiene**

**Division – Allied Health**

**Course Type:** (check one)

Academic General Education Course (from ACGM – but not in WCJC Core)

Academic WCJC Core Course

XWECM course (This course is a Special Topics or Unique Needs Course: Y  or NX)

**Semester Credit Hours # : Lecture hours# : Lab/other hours #      2:2:0**

**Equated Pay hours for course - 2**

**Course Catalog Description - A continuation of Contemporary Dental Hygiene Care I. Dental hygiene care for the medically or dentally compromised patient including advanced instrumentation techniques.**

**Prerequisites/Co requisites - DHYG 2362, 2201, 1315, and 1235 with grade of C or better.**

List Lab/ Other Hours
Lab Hours
Clinical Hours
Practicum Hours
Other (list)

**Approvals – the contents of this document have been reviewed and are found to be accurate.**

Prepared by Dale G. Hahn	Signature 	Date 1-19-2010
Department Head Carol Derkowski	Signature 	Date 1-20-10
Division Chair Carol Derkowski	Signature 	Date 1-20-10
Vice President of Instruction or Dean of Vocational Instruction Leigh Ann Collins	Signature 	Date 1-24-10



**I. Topical Outline** – Each offering of this course must include the following topics (be sure to include information regarding lab, practicum, clinical or other non-lecture instruction):

- I. Dental Implants
  - A. Definitions of key terms
  - B. Types of Dental Implants
  - C. Preparation and Placement
  - D. Peri-implant hygiene
  - E. Maintenance of Dental Implants
- II. Pulp Vitality Testing
  - A. Causes of loss of vitality
  - B. Observations that suggest loss of vitality
    - 1. clinical
    - 2. radiographs
  - C. Response to pulp testing
  - D. Thermal pulp testing
  - E. Electrical pulp tester
  - F. Interpretation of results
- III. Cleft Lip and Palate
  - A. Classification of clefts
  - B. Causes and problems associated with clefts
  - C. Oral and General Physical Characteristics
  - D. Treatment
  - E. Dental Hygiene Care
- IV. Patients with Special Needs
  - A. Disorders/Disabilities
    - 1. types
    - 2. characteristics
  - B. General Precautions
    - 1. communication
    - 2. medications
    - 3. overdose
  - C. Drug Interactions
  - D. Dental Hygiene Care and Considerations
    - 1. recare appointments (scheduling, barrier-free environment, patient education - and caregiver)
    - 2. dental biofilm removal, fluorides, diet instructions
  - E. Definitions and Classification of disabilities
  - F. Differentiate between disability and handicap
  - G. Patient Transfer Techniques
  - H. Common oral and medical manifestations of special needs patients/clients
- V. Mental Disability
  - A. Definition
  - B. Classification
  - C. Risk Factors
  - D. General Characteristics
  - E. Dental Hygiene Care and Instruction
    - 1. private practice patients/clients

- 2. institutional patients/clients
  - F. Down Syndrome
    - 1. characteristics
    - 2. dental hygiene care
  - G. Autistic Spectrum Disorder
    - 1. characteristics
    - 2. dental hygiene care
- VI. Physical Impairment and Sensory Disorders
  - A. Discussion of physical impairments and sensory disorders
    - 1. definition
    - 2. classification of physical handicaps
  - B. Treatment and care of patients/clients
    - 1. oral hygiene care and education
    - 2. patient/client transfer techniques
- VII. Diabetes
  - A. Classification and specific characteristics
  - B. Symptoms/complications of diabetes
  - C. Treatment
    - 1. medications
    - 2. oral relationships
    - 3. dental hygiene care plan and maintenance
  - D. Emergencies with Diabetics
- VIII. Epilepsy (Seizure Disorder)
  - A. Types of seizures
    - 1. characteristics
    - 2. etiology
  - B. Drug Therapy
    - 1. common drugs
    - 2. oral manifestations
  - C. Dental Hygiene Care
    - 1. special considerations
    - 2. treatment
  - D. Emergency procedures
- IX. Nitrous Oxide and Local Anesthesia
  - A. Definition of conscious sedation
    - 1. indications and contraindications for use
    - 2. advantages and disadvantages associated with use
    - 3. signs and symptoms of baseline level
    - 4. equipment safety features
  - B. Types of Anesthesia
    - 1. contraindications
    - 2. advantages and disadvantages
    - 3. emergencies associated with use of anesthetics
  - C. Strategies for Managing Fear, Anxiety, and Pain in the dental setting
- X. Oral Cancer Patient and Tobacco Control
  - A. Neoplasms
    - 1. benign
    - 2. malignant
  - B. Incidence
    - 1. statistics
    - 2. predisposing factors
    - 3. effects of tobacco products
  - C. Treatment Modalities
    - 1. surgery
    - 2. radiation

- 3. chemotherapy
- D. Effects on oral cavity
- E. Five (5) A's of Tobacco Intervention
- F. Dental Hygiene Care
  - 1. plaque control
  - 2. nutrition and diet
  - 3. fluoride
  - 4. recare/recall
  - 5. patient education
- XI. Medical Emergencies
  - A. office emergencies: epileptic, nitrous oxide, obstructed airway, asthma, syncope, hyperventilation, anxiety attack, heart attack, pregnancy
  - B. clinical signs and sequence of action

**II. Course Learning Outcomes**

Course Learning Outcome	Method of Assessment
1. Discuss management of various ethical situations in relation to the oral health care of individuals with special needs	1. written examinations, case presentations, role play presentations, reflection paper, lab activities
2. Demonstrate retention and continued progression in ability to recognize contraindications and modify treatment modalities	2. written examinations, case presentations, role play presentations, reflection paper, lab activities
3. Demonstrate advanced instrumentation techniques and modalities appropriate to various patient needs	3. written examinations, case studies, lab exercises
4. Assess various patient needs and formulate a treatment plan for the medically and dentally compromised patient	4. written examinations, case studies

**III. Required Text(s), Optional Text(s) and/or Materials to be Supplied by Student.**

1. Wilkins, Esther M., Clinical Practice of the Dental Hygienist, 10<sup>th</sup> Edition, Lippincott Williams & Wilkins, 2009.
2. Thomson, Evelyn, Case Studies in Dental Hygiene, 2<sup>nd</sup> Edition, Prentice Hall, 2009.
3. Nield-Gehrig, Jill S., Fundamentals of Periodontal Instrumentation & Advanced Root Instrumentation, 6<sup>th</sup> Edition, Lippincott Williams & Wilkins, 2008.
4. Wynn, Richard, Timothy Meiller and Harold Crossley, Drug Information Handbook for Dentistry, 14<sup>th</sup> Edition, Lexi-Comp Inc., 2008.
5. Derkowski, C., Mayfield, S., Hahn, D., Bode, B., Novosad, G., Bay, F., Wharton County Junior College Dental Hygiene Clinic Manual, May 2009.

**IV. Suggested Course Maximum - 28**

**V. List any specific spatial or physical requirements beyond a typical classroom required to teach the course.**

Dental hygiene clinic with dental units and sterilization area.

**VI. Course Requirements/Grading System – Describe any course specific requirements such as research papers or reading assignments and the generalized grading format for the course**

Grading System: **A** = 100-93, **B** = 92-84, **C** = 83-75, **D** = 74 -67, **F** = 66 and below

A minimum grade of 75 is required to pass DHYG 2231 and progress in the dental hygiene program.

Examinations (six examinations which includes a Mock National Board Dental Hygiene exam)	60%
Other Course Work (quizzes, reflection paper, group projects, case study assignments)	20%
Presentations (Emergency and Indices PowerPoint)	20%

Capstone Experience: A Mock National Board Dental Hygiene Examination that tests comprehensive cognitive abilities is given in this course. The examination assesses the ability to understand important information from basic biomedical, dental, and dental hygiene sciences and the ability to apply such information in a problem-solving context. Successful completion of the Mock examination is a pre-requisite to taking the National Board Dental Hygiene Examination prior to graduation.

**VII. Curriculum Checklist**

- **Academic General Education Course** (from ACGM – but not in WCJC Core)  
No additional documentation needed

- **Academic WCJC Core Course**  
Attach the Core Curriculum Checklist, including the following:

- Basic Intellectual Competencies
- Perspectives
- Exemplary Educational Objectives

**X - WECM Courses**

If needed, revise the Program SCANS Matrix & Competencies Checklist.