

Course Information Form (CIF)

Course Code: DHG 217

Course Title: Seminar III

Department: Allied Health

Effective Date: Summer 2026

PCS Code: 1.2 - Occupational/Technical Instruction

CIP Code: 51.0601

Repeatability: 0

Credit Hours

Catalog Notation: 2-0-2

Credit Hour Distribution:

Lecture: 2

Lab: 0

Clinical: 0

Total: 2

General Course Information

Catalog Description

Provides information for the dental hygiene care of the medically compromised dental patient and patients with special developmental or acquired conditions, including sensory and/or psychological needs.

General Course Objectives

Be able to:

1. Identify special healthcare needs in patients with disabilities.
2. Explain the risks and associations between cardiovascular disease, diabetes, and other systemic conditions with periodontal disease.
3. Recognize oral manifestations associated with systemic diseases and different patient populations.
4. Describe treatment modifications based on patient population.
5. Identify patients at risk for medical emergencies and explain preventive care strategies for different populations.
6. Explain barriers to healthcare experienced by specific patient populations.

Minimum Placement Levels

English	Reading	Math
Placement out of ENG 099	Placement out of CCS 099	None

Prerequisites

Credit in DHG 212, DHG 215, and DHG 216

Admission into the Dental Hygiene program

Methods of Evaluation

12-17 objective multiple choice quizzes, 1-2 objective multiple choice exams, 1 final exam, 2-3 reflective discussion posts, 10-13 assignments, and 1 final comprehensive review assignment.

Instructional Materials and Additional Supplies

Dental Hygiene Theory and Practice by Pieren and Gadbury-Amyot

Darby's Comprehensive Review of Dental Hygiene by Blue

Course Content

General Learning Outcomes (GLOs)

- Communication: Students will demonstrate the ability to read, write, listen, and speak effectively.
- Critical Thinking and Information Literacy: Students will demonstrate the ability to evaluate perspectives, evidence, and implications, and to locate, assess, and use information effectively.
- Reasoning and Inquiry: Students will demonstrate the ability to solve problems using deductive reasoning and logic, quantitative reasoning, or the scientific method.

Course Segments and Student Learning Outcomes

Course Segment	Learning Outcomes	Lecture Hours	Lab Hours	Clinical Hours
Disability and Healthcare & Intellectual and Developmental Disabilities	1. Define disability and special healthcare needs. 2. Identify the three classifications of disabilities. 3. Define the term disability-adjusted life years. 4. Name key legislative policies that benefit persons with disabilities. 5. Identify barriers for patients with special healthcare needs. 6. Describe general definitions of persons with special healthcare needs. 7. Discuss the influence of stereotypes and attitudes on the acceptance of persons with disabilities. 8. Distinguish among developmental, acquired, and age-associated disabilities. 9. Describe assistive devices for activities of daily living. 10. Describe oral self-care devices. 11. Explain methods for patient positioning and stabilization. 12. Demonstrate how to stabilize a patient during wheelchair transfers and professional care. 13. Discuss the role of the dental hygienist in health promotion and advocacy for patients with disabilities. 14. Identify oral manifestations observed in individuals with Down syndrome and persons with intellectual disabilities. 15. List the levels of intellectual functioning in persons with intellectual disabilities and their characteristics. 16. Identify the different types of Autism Spectrum Disorder in individuals on the spectrum. 17. Describe the general characteristics of individuals with Down syndrome, individuals with Autism Spectrum Disorder, and persons with intellectual disabilities. 18. Identify alterations in dental hygiene care for patients with Down syndrome, patients with Autism Spectrum Disorder (ASD), and persons with intellectual disabilities.	3	0	0

Course Segment	Learning Outcomes	Lecture Hours	Lab Hours	Clinical Hours
Cardiovascular Disease	1. Identify signs and symptoms of rheumatic heart disease, infective endocarditis, valvular heart defects, cardiac arrhythmias, hypertension, coronary heart disease, congestive heart failure, and congenital heart disease. 2. Identify cardiovascular medications and the conditions they treat. 3. Discuss cardiovascular disease in terms of risk and protective factors, and links to periodontal disease. 4. Identify oral complications associated with cardiovascular medications. 5. Develop a dental hygiene diagnosis and care plan for a patient with cardiovascular disease. 6. Determine the need for emergency medical care in patients with cardiovascular disease. 7. Explain the rationale and indications for antibiotic premedication, identify the drugs used, and select the appropriate regimen for patients already taking an antibiotic.	2	0	0
Diabetes Mellitus	1. Describe the classifications of diabetes, and differentiate among prediabetes, type 1 diabetes mellitus, type 2 diabetes mellitus, and gestational diabetes in terms of prevalence, characteristics, and potential complications. 2. Explain the pathophysiology of diabetes and recognize systemic and oral signs, symptoms, and complications of type 1 diabetes mellitus and type 2 diabetes mellitus. 3. Identify a diabetic emergency and take appropriate action for management. 4. Discuss lifestyle adjustments required for individuals with diabetes. 5. Develop an appropriate dental hygiene care plan for a patient with diabetes, including explaining the dental hygiene process of care and assisting patients in preventing diabetes when risk factors are present, including referral for screening.	2	0	0
Cancer and Palliative Care	1. Define terms related to cancer, cancer therapies, and oral healthcare for the cancer patient. 2. Discuss the incidence and risk factors for cancer and oral cancer. 3. Describe the modes of cancer and oral cancer therapy. 4. Describe oral considerations of general cancer therapy and oral complication management. 5. Discuss oral cancer-specific therapies, including the rationale for bisphosphonate use and the potential for osteonecrosis. 6. Develop a dental hygiene care plan for patients before, during, and after cancer therapy. 7. Describe principles of palliative dental hygiene care and its role in improving quality of life.	2	0	0
HIV and Oral Health	1. Explain the early history of the human immunodeficiency virus (HIV) epidemic. 2. Describe the pathogenesis of HIV. 3. Discuss HIV exposure and infection, including transmission routes. 4. Explain drug therapy used to control HIV. 5. Explain the epidemiology of HIV and acquired immunodeficiency syndrome (AIDS). 6. Describe the risk of HIV infection among healthcare workers. 7. Explain the relationship between HIV and periodontal status. 8. Identify specific oral conditions associated with HIV/AIDS. 9. Develop an interprofessional approach for treating patients with HIV or AIDS.	2	0	0

Course Segment	Learning Outcomes	Lecture Hours	Lab Hours	Clinical Hours
Neurologic Disabilities	1. Describe general dental hygiene care for persons with neurologic and sensory deficits. 2. Discuss dysfunctions of the motor system, including clinical features, treatment, prognosis, oral findings, special considerations, and self-care instructions. 3. Discuss peripheral neuropathies, including clinical features, treatment, prognosis, oral findings, special considerations, and self-care instructions. 4. Discuss spinal cord dysfunction, including clinical features, treatment, prognosis, oral findings, special considerations, and self-care instructions. 5. Discuss seizure disorders, including clinical features, treatment, prognosis, oral findings, and special considerations and self-care instructions. 6. Discuss disorders of higher cortical function, including clinical features, treatment, prognosis, oral findings, special considerations, and self-care instructions. 7. Discuss cerebrovascular disease, including clinical features, treatment, prognosis, oral findings, special considerations, and self-care instructions.	2	0	0
Autoimmune Diseases & Organ Transplantation and Renal Disease	1. Explain immune dysfunction. 2. Discuss the pathophysiology of autoimmune diseases. 3. Describe pharmacologic considerations for autoimmune diseases. 4. Identify systemic and oral manifestations of autoimmune diseases and how autoimmune diseases affect the dental hygiene process of care. 5. Develop a care plan appropriate for patients with autoimmune disease. 6. Identify dental management considerations for patients before and after solid organ transplantation. 7. Compare chronic kidney disease and end-stage renal disease. 8. Describe dialysis treatment modalities. 9. Relate secondary medical conditions associated with kidney disease and dialysis to oral health. 10. Discuss the need for interprofessional communication within the transplant healthcare team.	3	0	0
Respiratory Diseases	1. Define asthma, chronic obstructive pulmonary disease (COPD), and tuberculosis. 2. Identify risk factors, signs and symptoms, medications, and dental hygiene care implications for asthma, chronic bronchitis, emphysema, and tuberculosis. 3. Develop a dental hygiene care plan for a patient with a respiratory disease. 4. Identify modifications to dental hygiene care for asthma, COPD, and tuberculosis.	2	0	0

Course Segment	Learning Outcomes	Lecture Hours	Lab Hours	Clinical Hours
Children and Adolescents & Orthodontic Care	1. Recognize the need for interprofessional collaboration to meet the oral health needs of children. 2. Promote oral health literacy among caregivers and health providers. 3. Advocate for a healthy oral life span among children and adolescents. 4. Discuss fluoride consumption, various fluoride therapies, water fluoridation, and fluoride toxicity. 5. Describe behavioral management strategies for pediatric patients. 6. Discuss malocclusion and its effects. 7. Assess and evaluate the need for orthodontic referral, including appropriate timing. 8. Educate patients/guardians on normal vs. abnormal developmental changes affecting orthodontic needs. 9. Describe the biomechanics of tooth movement. 10. List and describe three types of orthodontic treatment. 11. Describe the use of orthodontic appliances. 12. Identify risks associated with orthodontic treatment and strategies to mitigate them. 13. Discuss the role of dental collaboration in alternative orthodontic treatments. 14. Instruct patients in effective self-care during orthodontic treatment.	3	0	0
Substance Use Disorders	1. Describe alcohol and substance use disorders. 2. Explain physiologic, genetic, and environmental factors contributing to substance use, including psychoactive drug mechanisms. 3. Compare medical treatment options for substance use disorders. 4. Identify systemic, oral, and long-term effects of substance misuse. 5. Identify oral signs and symptoms of substance use. 6. Apply the dental hygiene process of care to patients with substance use disorders and those in recovery. 7. Explain why healthcare professionals are at risk for chemical dependence.	2	0	0
Pregnancy and Oral Health & Orofacial Clefts	1. Explain and classify the current state of evidence regarding maternal periodontal disease and adverse birth outcomes. 2. Identify oral manifestations and health behaviors associated with pregnancy. 3. Describe preventive strategies for early childhood caries (ECC) in infants. 4. Explain the impact of low health literacy on the oral health of pregnant women and infants. 5. Identify the role of the dental hygienist in collaborating interprofessionally to improve oral health in pregnant patients. 6. Identify community programs and resources that serve pregnant women. 7. Discuss the incidence, prevalence, and etiology of orofacial clefts, and differentiate between the types of treatment indicated for cleft lip and cleft palate. 8. Educate patients and caregivers about the risks and oral complications associated with orofacial clefts. 9. Describe the role of the dental hygienist in planning individualized care to prevent and manage oral health conditions and challenges in patients with cleft lip and/or cleft palate. 10. Explain the importance of interprofessional collaboration in addressing the comprehensive needs of patients with orofacial clefts and their caregivers.	3	0	0

Course Segment	Learning Outcomes	Lecture Hours	Lab Hours	Clinical Hours
The Older Adult	1. Explain demographic characteristics and their implications for older adult care. 2. Define geriatrics, gerontology, chronologic age, and functional age. 3. Conduct general and oral health assessments for older adults. 4. Explain the importance of health promotion in aging populations. 5. Differentiate between age-related oral changes and those caused by disease or medications. 6. Identify chronic diseases associated with aging and their implications for dental hygiene care. 7. Apply the five phases of the dental hygiene process of care (assessment, diagnosis, planning, implementation, and evaluation) to older adults. 8. Discuss community health services available for older adults.	2	0	0
Transgender/Homeless Patients	1. Identify demographics of the transgender population. 2. Explain barriers to healthcare access for transgender patients. 3. List goals and systemic effects of hormone therapy. 4. Discuss the role of the dental hygienist in treating transgender patients. 5. Identify demographics of the homeless population. 6. Explain barriers to healthcare access for homeless patients. 7. Discuss the role of the dental hygienist in treating homeless patients.	2	0	0

Total Contact Hours

Lecture Hours	Lab Hours	Clinical Hours
30	0	0