



Learning Outcomes for First Year BS Courses: DENT 3307, DENT 3308, DENT 3311, DENT 3312, DENT 3313, DENT 3313C, DENT 3315, DENT 3316, DENT 3309, DENT 3314, DENT 3314C, DENT 3318, DENT 3318L, DENT 3320, DENT 3321 and PPRA 3314.

- 1) Critically analyze data from the health history interview and assessment to identify existing conditions needing special precautions, treatment alterations, consultation and referral for conditions that require further diagnosis and consultation with other health care providers.
- 2) Comprehend the principles of embryogenesis and human development with emphasis on the face and structures of the oral cavity.
- 3) Apply knowledge of the development, calcification, eruption, physiology of tooth form/function and occlusion of primary and permanent teeth when providing preventive, therapeutic and restorative care.
- 4) Integrate a comprehensive working knowledge of the fundamental structures, functions and interrelationships of the head and neck, including the skeletal, muscular, nervous and circulatory structures during the provision of dental hygiene care.
- 5) Demonstrate competency at the novice level, the assessment and documentation of the medical history, vital signs, extraoral, intraoral examination of hard and soft tissues, dental and periodontal structures including risk factors that require intervention to prevent and control disease.
- 6) Demonstrate competency at the novice level, instrument characteristics and techniques with assessment and scaling instruments, following ergonomic practices, including topical application of fluorides and rubber cup polishing.
- 7) Apply knowledge related to recognizing predisposing and etiological risk factors; assess client concerns, goals, values, needs, and preferences and create evidence-based strategies to prevent, control and maintain oral health.
- 8) Demonstrate self-care education utilizing effective communication skills, motivational strategies, and cultural competence through patient education techniques to prevent and control risk factors that contribute to caries, periodontal disease, and other systemic health and oral conditions based on current evidence.
- 9) Critically evaluate and self-assess dental material procedures performed in the laboratory setting in order to improve outcomes.
- 10) Evaluate clinical signs and symptoms of oral conditions and identify differential and definitive diagnoses and use the dental hygiene process of care to formulate dental hygiene diagnoses, evidence-based person-centered treatment plans, and intraprofessional and interprofessional referrals.
- 11) Demonstrate competency at the beginning level for implementing infection control standards following the CDC, OSHA, and OSAP guidelines and departmental policies and protocols to prevent the transmission of infectious disease to other.

- 12) Demonstrate competency at the beginning level with assessment, planning, diagnosis, implementation and evaluation when providing dental hygiene care for adults with gingivitis or Stage I periodontitis, and child and adolescent clients.
- 13) Assess the need for and provide preventive and initial periodontal therapies following the dental hygiene process of care, at the beginner level for adults, child/adolescent, older adults.
- 14) Implement problem solving strategies in providing care for a variety of patients including those with orthodontics, partials/dentures, and those in need of tobacco cessation and whitening procedures.
- 15) Differentiate normal oral structures, restorative materials, health/diseases, and anomalies as they appear from an accurately assessed and evaluated set of radiographs, and correlate radiographic findings with other clinical data to determine a preliminary diagnosis.
- 16) Apply self-assessment principles and critical decision-making skills to evaluate radiographic technique and assess and value patient need for radiographs, including the type and number to accurately interpret and record findings.
- 17) Critically evaluate and self-assess applied dental materials, preventive and restorative procedures performed in the laboratory setting in order to improve outcomes.
- 18) Demonstrate laboratory competency in the placement and finishing of Class II composite and amalgam restoratives according to the WREB criteria.
- 19) Demonstrate novice and beginner levels of competence during the administration of local anesthetic agents in a preclinical setting.
- 20) Demonstrate beginning competency in using problem solving skills and principles of treatment planning to design a comprehensive and individualized dental hygiene care plan for patients with periodontal health, gingivitis and initial (Stage I) periodontitis including assessment, diagnosis, education, treatment, and evaluation.
- 21) Determine an accurate preliminary diagnosis and prognosis for various classifications of periodontal disease.
- 22) Apply basic principles of periodontal instrumentation to plan appropriate dental hygiene care and nonsurgical periodontal therapy for simulated cases of gingivitis and Stage I (initial) periodontitis and determine expected treatment outcomes.
- 23) Evaluate the pathophysiology of disease states and mechanism of drug action and apply them to strategies for providing appropriate dental hygiene therapy.