Dental Hygiene Department

Dental Hygiene Degree

- Bachelor of Science in Dental Hygiene (catalog.dixie.edu/programs/dental-hygiene/dental-hygiene-bs)

Click here for the Dental Hygiene Website (https://health.dixie.edu/dental-hygiene) (following this link will take you out of the University Catalog)

Courses

DHYG 1005. Intro to Dental Sciences. 1 Hour.
Recommended (but not required) for all students interested in entering the dental profession. Introduces fundamental concepts related to dentistry and will provide a basic education of the roles of various dental personnel, dental specialties, dental terminology, concepts, instruments, materials, and procedures. **COURSE LEARNING OUTCOMES (CLOs) At the successful conclusion of this course, students will be able to: 1. Explain the roles of various dental personnel. 2. Describe the importance of medical histories and vital signs as it applies to patient care. 3. Identify the elements to proper infection control, disinfection and sterilization. 4. Describe the radiology basics in the dental profession. 5. Identify, recognize and classify the basic anatomy of the head, neck, and oral structures. 6. Repeat dental instrument identification and classification. 7. Discuss basic dental materials and their use in dentistry. FA, SP.

DHYG 1010. Dental Hygiene Theory I. 4 Hours.
Covers the theoretical foundations of preventative oral health services used in the dental hygiene process. Emphasizes prevention of disease transmission, body mechanics, patient assessment, basic dental hygiene instrumentation, oral healthcare planning, extrinsic stain removal, topical anesthesia, ethical decision making, and the role and responsibilities of the dental hygienist. This course requires a Differential Tuition Rate which is an additional fee of $215 charged per credit hour. **COURSE LEARNING OUTCOMES (CLOs) At the successful conclusion of this course, students will be able to: 1. Research topics in dental hygiene care and report findings through a written report in APA format. 2. Recognize the process of disease transmission and infection control through the application of specific communicable diseases. 3. Identify the caries process. Explain the significance and prevention of dental caries. 4. Explain the assessment process and identify oral health risk factors (Caries, Periodontal, Oral Cancer). 5. Recognize the characteristics of healthy and unhealthy gingival and periodontal structures and record the findings. 6. Explain the importance of an efficient and effective care plan and practice the steps necessary for proper documentation of informed consent and informed refusal. 7. Explain the purposes for documentation and patient records and privacy laws associated with HIPPA. 8. Identify individual patient needs and recognize how to work with patients to implement an educational plan to improve oral health. Prerequisite: Admission to the Dixie State University Dental Hygiene program. FA.

DHYG 1015. Dental Hygiene Clinic I. 3 Hours.
The first year dental hygiene student will practice introductory skills, including clinical and laboratory applications of elements taught in DHYG 1010, that are essential to rendering oral health services to patients with emphasis on basic dental hygiene instrumentation. This course requires a Differential Tuition Rate which is an additional fee of $215 charged per credit hour. **COURSE LEARNING OUTCOMES (CLOs) At the successful conclusion of this course, students will be able to: 1. Understand the aspects of and gain skills in maintaining Quality Assurance. 2. Develop skills of Dental Hygiene Fundamentals. 3. Cultivate Technical Skills of dental hygiene instrumentation. 4. Develop and progress skills in clinical documentation and communication. Prerequisite: Admission to the Dixie State University Dental Hygiene program. FA.

DHYG 2020. Radiology. 2 Hours.
Covers the nature and production of X-rays and basic principles and procedures in oral radiology. Emphasizes radiation physics; radiation biology; radiation protection; basic intraoral radiographic techniques; film processing; and mounting procedures as well as supplemental intraoral, extraoral, and localization techniques; radiographic interpretation; and patient management topics. This course requires a Differential Tuition Rate which is an additional fee of $215 charged per credit hour. **COURSE LEARNING OUTCOMES (CLOs) At the successful conclusion of this course, students will be able to: 1. Understand radiation history and fundamentals. 2. Gain basic radiology technical skills. 3. Recognize normal and abnormal anatomy, pathology for proper radiographic interpretation. 4. Gain skills in documentation & Communications with patients and healthcare providers. Prerequisite: Admission to the Dixie State University Dental Hygiene program. FA.

DHYG 2025. Radiology Clinic. 1 Hour.
Clinical portion of DYHG 2020. Students will be required to study and practice the production of both film and digital radiographs and basic principles and procedures in oral radiology. Emphasis is on radiation protection, basic intraoral radiographic techniques, film processing, and mounting procedures. Focus is placed on supplemental intraoral techniques, extraoral techniques, localization techniques, radiographic interpretation, intraoral camera imaging and patient management topics. Students will participate in taking intraoral and extraoral radiographs on mannequins and patients. This course requires a Differential Tuition Rate which is an additional fee of $215 charged per credit hour. **COURSE LEARNING OUTCOMES (CLOs) At the successful conclusion of this course, students will be able to: 1. Engage in radiologic fundamentals through proper use and maintenance of equipment. 2. Gain basic radiology technical skills. 3. Recognize normal and abnormal anatomy, pathology for proper radiographic interpretation. 4. Gain skills in documentation & Communications with patients, caregivers and healthcare providers. Prerequisite: Admission to the Dixie State University Dental Hygiene program. Corequisite: DHYG 2020. FA.
DHYG 2035. Oral Anatomy and Histology. 4 Hours.
In this course, the student will study the histology and anatomy of the head and neck. Emphasis is on location, function, nomenclature and clinical considerations of normal anatomy and variations. In addition, the course will include an understanding of embryologic development and development defects with a focus on oral hard and soft tissues. This course requires a Differential Tuition Rate which is an additional fee of $215 charged per credit hour. **COURSE LEARNING OUTCOMES (CLOs) At the successful conclusion of this course, students will be able to: 1. Identify, and differentiate the function of, the bones, muscles and structures, including glands, blood vessels, nerves and lymphatics of the head, neck and oral cavity. 2. Describe location and connections of potential spaces of head and neck. 3. Describe the development of the hard and soft tissues of the head and neck and oral cavity. 4. Organize the embryological steps of the development of the head and neck. 5. Integrate the knowledge of histology and embryology of the orofacial tissues and the resulting pathology that may occur. Prerequisite: Admission to the Dixie State University Dental Hygiene program. FA.

DHYG 2040. Tooth Morphology. 1 Hour.
The student will be able to identify the structures that make up the roof, floor and lateral borders of the oral cavity proper. Included are the following areas of discussion: oral cavity, tooth functions, terminology, fundamental and preventative curvatures of the oral cavity, the dentition, the development, form, and eruption of the teeth, occlusion, dental anomalies, supporting structures of the teeth, clinical consideration of the dental anatomy, permanent and deciduous tooth identification and morphology. This course requires a Differential Tuition Rate which is an additional fee of $215 charged per credit hour. **COURSE LEARNING OUTCOMES (CLOs) At the successful conclusion of this course, students will be able to: 1. Discuss elements of tooth morphology with other health professionals using appropriate dental vocabulary. 2. Demonstrate knowledge of tooth characteristics by categorizing individual teeth based on morphology. 3. Discuss the relationship between tooth morphology and scaling and root planning techniques. 4. Discuss the basic principles of occlusion and variables that play important roles in inter- and intra-arch relationships. Prerequisite: Admission to the Dixie State University Dental Hygiene program. Corequisite: DHYG 2045. FA.

DHYG 2045. Tooth Morphology Lab. 1 Hour.
Laboratory portion of DHYG 2040. The student will be able to identify the individual teeth of the human dentition within and without the surrounding oral structures by evaluating the crown and roots of the teeth. The student will be able to draw to scale individual teeth and have practiced eye hand coordination, paying very careful attention to detail, utilize a digital caliper, carve and wax both a maxillary canine and mandibular molar tooth in wax. This course requires a Differential Tuition Rate which is an additional fee of $215 charged per credit hour. **COURSE LEARNING OUTCOMES (CLOs) At the successful conclusion of this course, students will be able to: 1. Apply information presented on the patient health history to plan for optimal dental care specific to the patient's medical conditions avoiding harm to the patient and/or operator. 2. Analyze information on the health history to identify both recognized and possible unrecognized conditions for which the patient should be referred for further diagnosis and treatment. 3. Evaluate medical emergency situations, determine the appropriate protocols to follow, personnel to notify, appropriate treatment to perform, emergency equipment needed, drugs to administer, and the necessary documentation to report. Prerequisite: Admission to the Dixie State University Dental Hygiene program. Corequisite: DHYG 2040. FA.

DHYG 2062. Care of Medically Complex Patients. 3 Hours.
Covers psycho-social, physical and oral characteristics of medically complex patients. Also included are the care and clinical management of special needs patients and management of medical emergencies in the clinical setting. This course requires a Differential Tuition Rate which is an additional fee of $215 charged per credit hour. **COURSE LEARNING OUTCOMES (CLOs) At the successful conclusion of this course, students will be able to: 1. Apply the terminology of the dentition in appropriate clinical discussions. Prerequisite: Admission to the Dixie State University Dental Hygiene program. Corequisite: DHYG 2040. FA.

DHYG 2065. Care of Medically Complex Patients Lab. 1 Hour.
Laboratory portion of DHYG 2062. The student will be able to identify the structures that make up the roof, floor and lateral borders of the oral cavity proper. Included are the following areas of discussion: oral cavity, tooth functions, terminology, fundamental and preventative curvatures of the oral cavity, the dentition, the development, form, and eruption of the teeth, occlusion, dental anomalies, supporting structures of the teeth, clinical consideration of the dental anatomy, permanent and deciduous tooth identification and morphology. This course requires a Differential Tuition Rate which is an additional fee of $215 charged per credit hour. **COURSE LEARNING OUTCOMES (CLOs) At the successful conclusion of this course, students will be able to: 1. Apply information presented on the patient health history to plan for optimal dental care specific to the patient's medical conditions avoiding harm to the patient and/or operator. 2. Analyze information on the health history to identify both recognized and possible unrecognized conditions for which the patient should be referred for further diagnosis and treatment. 3. Evaluate medical emergency situations, determine the appropriate protocols to follow, personnel to notify, appropriate treatment to perform, emergency equipment needed, drugs to administer, and the necessary documentation to report. Prerequisite: Admission to the Dixie State University Dental Hygiene program. Corequisite: DHYG 2040. FA.

DHYG 2040. Dental Hygiene Theory II. 4 Hours.
Continuation of the study of the theoretical foundations of preventative and therapeutic oral health services used in the dental hygiene process with emphasis on preparation for individual patient education and care, communication, and nutrition. This course requires a Differential Tuition Rate which is an additional fee of $215 charged per credit hour. **COURSE LEARNING OUTCOMES (CLOs) At the successful conclusion of this course, students will be able to: 1. Gain further knowledge on techniques to increase effectiveness in communicating with patients. 2. Discuss dietary habits and how they relate to caries activity. 3. Explain the benefits and risks of water fluoridation. 4. Identify a caries high risk patient. Document and report on assessment, diagnosis, planning, implementation, education, and evaluation for selected patient. 5. Discuss the best treatment and education for patients in the following circumstances: Elderly, Cancer, Puberty, Pediatric, Pregnancy, Hypersensitivity, Substance Abuse. Prerequisite: Admission to the Dixie State University Dental Hygiene program. FA.

DHYG 2057. Dental Hygiene Clinic I (ALCE). 4 Hours.
Clinical portion of DHYG 2510. This course is designated as an Active Learning Civic Engagement (ALCE) course. Students will be working to make a difference in the civic life of our community through both political and nonpolitical processes. This course requires a Differential Tuition Rate which is an additional fee of $215 charged per credit hour. **COURSE LEARNING OUTCOMES (CLOs) At the successful conclusion of this course, students will be able to: 1. Expand Quality Assurance skills. 2. Improve technical skills of dental hygiene instrumentation. 3. Advance skills in clinical documentation. 4. Advance skills in communication with patients, caregivers and healthcare providers. Prerequisite: Admission to the Dixie State University Dental Hygiene program. SP.
DHYG 2520. General/Oral Pathology. 3 Hours.
To acquire functional knowledge base for the clinical diagnosis and understanding of soft and hard tissue lesions, syndromes, diseases and disorders affecting the oral cavity, head and neck. Covers diseases that affect the oral cavity primarily or as a secondary affect. Disease processes, clinical signs and symptoms and treatment of inflammatory, immunologic, neoplastic, infectious, developmental and genetic diseases will be studied. This course requires a Differential Tuition Rate which is an additional fee of $215 charged per credit hour. **COURSE LEARNING OUTCOMES (CLOs) At the successful conclusion of this course, students will be able to: 1. Identify by illustration, diagram or description normal, variations of normal and common pathologic oral lesions. 2. Differentiate between the pathologic processes associated with the head, neck and oral cavity, including systemic diseases, neoplasia and genetic disorders, and how they are manifest in the head, neck and oral cavity. Prerequisite: Admission to the Dixie State University Dental Hygiene program. SP.

DHYG 2530. Pharmacology. 2 Hours.
Preparation, chemical formula, effects, and applications of pharmacological and therapeutic agents are analyzed, including medical agents used in the prevention and management of emergencies in the dental field. Emphasis will be placed on prescription and nonprescription drugs commonly used by patients which may require the alteration of treatment procedures and / or medications used in the dental setting. This course requires a Differential Tuition Rate which is an additional fee of $215 charged per credit hour. **COURSE LEARNING OUTCOMES (CLOs) At the successful conclusion of this course, students will be able to: 1. Describe the role of pharmacology in the dental hygiene process of care. 2. Describe the fundamentals of drug action. 3. Recognize both proprietary and generic names and classifications of drugs used to treat different medical conditions. 4. Identify oral manifestations and side effects associated with pharmacological therapy. 5. Identify contraindications and interactions of drugs commonly used in dentistry with medications and or supplements a patient may be taking for a diagnosed or self-diagnosed medical conditions. Prerequisite: Admission to the Dixie State University Dental Hygiene program. SP.

DHYG 2540. Periodontology. 3 Hours.
Principles of periodotology involving assessment, etiology, risk factors, and classification of periodontal disease; basic treatment planning; and non-surgical periodontal therapy, as well as various types of therapeutic techniques available. This course requires a Differential Tuition Rate which is an additional fee of $215 charged per credit hour. **COURSE LEARNING OUTCOMES (CLOs) At the successful conclusion of this course, students will be able to: 1. Identify the tissues of the periodontium and describe their function. 2. Distinguish between various stages of periodontal disease. 3. Identify and describe the AAP classifications of Periodontal Disease. 4. Identify and address local contributing factors to periodontal disease. 5. Name and describe the major systemic contributing risk factors for periodontitis. 6. Identify types of diabetes, medications associated with gingival enlargement, types of hormonal alterations, and types of periodontal disease associated with HIV infection. 7. Describe how patients' conditions, habits, and diseases contribute to his or her risk for developing periodontal disease. 8. Demonstrate the creation of an initial care plan for a patient with chronic periodontitis and how to set reasonable treatment goals. 9. Identify variables associated with periodontal disease and describe various theories of periodontal disease progression. 10. Define Biofilm and describe its role in the immune response related to Periodontal disease. Prerequisite: Admission to the Dixie State University Dental Hygiene program. SP.

DHYG 2580. Dental Materials. 1 Hour.
Introduction to various dental products and materials with a comprehensive background in the art and science of dental materials use, including the physical properties, advantages, and disadvantages of metals, hydrocarbons, and other dental materials, as well as evaluation of allergenicity and other complications that may arise as a result of the use of these materials. This course requires a Differential Tuition Rate which is an additional fee of $215 charged per credit hour. **COURSE LEARNING OUTCOMES (CLOs) At the successful conclusion of this course, students will be able to: 1. Discuss the interaction between the oral environment and dental materials. 2. Relate the physical properties of dental materials. 3. Describe the bonding mechanism. 4. Differentiate between composites, glass ionomers and composites. 5. Explain important elements of preventive and bleaching materials. 6. Differentiate between dental ceramics, dental amalgam, casting metals, solders, and wrought metal alloys. 7. Describe the different types of dental implants and the advantages and disadvantages of each. 8. Discuss abrasion, finishing, polishing, dental cements, impression materials, dental waxes and gypsum products. 9. Relate how polymers are used in dentistry. 10. Describe the different types of provisional restorations and their use in dentistry. Prerequisite: Admission to the Dixie State University Dental Hygiene program. SP.

DHYG 2585. Dental Materials Lab. 1 Hour.
Laboratory portion of DYHG 2580. This course is designed to give the student exposure and experience using, handling, and understanding dental materials typically used in the dental office. Information learned will give the student the ability to accurately educate patients as the need arises. This course requires a Differential Tuition Rate which is an additional fee of $215 charged per credit hour. **COURSE LEARNING OUTCOMES (CLOs) At the successful conclusion of this course, students will be able to: 1. Demonstrate ethical and professional behavior when working with dental materials. 2. Apply principles to safely dispose of dental materials. 3. Discuss the importance of handling dental materials safely. 4. Upon completion of this course students will take usable alginate impressions. 5. Upon completion of this course students will demonstrate fabrication of bleach trays, semi custom trays, bite registrations and double bite impressions. 6. Upon completion of this course students will discuss the effects of abrasion and polishing. 7. Upon completion of this course students will fabricate a provisional restoration. 8. Upon completion of this course students will pour and trim study models. 9. Upon completion of this course students will demonstrate manipulation of composite materials and dental amalgam for restorations. Prerequisite: Admission to the Dixie State University Dental Hygiene program. Corequisite: HYGG 2580. SP.
**COURSE LEARNING OUTCOMES (CLOs)** At the successful conclusion of this course, students will be able to: 1. Apply knowledge acquired to develop care plans for patients who exhibit periodontitis. 2. Demonstrate the ability to use print and online resources to gather information needed to make informed decisions for evidence based practice. 3. Describe the components and methods relevant to periodontal maintenance. 4. List the various periodontal diseases that can require emergency treatment. 5. Describe the goals, terminology and treatment considerations relevant to periodontal surgery. 6. Demonstrate giving postsurgical instructions to a patient. 7. Identify ways to enhance patient behavior change. 8. Describe how complete and accurate documentation acts as a defense against charges of malpractice. 9. Demonstrate communication techniques to effectively instruct patients how to perform appropriate self-care. 10. Describe treatment strategies that incorporate host modulation. Prerequisite: Admission to the Dixie State University Dental Hygiene program. FA.

**COURSE LEARNING OUTCOMES (CLOs)** At the successful conclusion of this course, students will be able to: 1. Describe restorative armamentarium along with its’ use and care. 2. Explain the necessity of checking the patient's functional occlusion before and after placing and carving a restoration. 3. Summarize and demonstrate the basic placement and carving steps for both amalgam and composite restorations. 4. Describe the most common errors made when placing, carving and manipulating both amalgam and composite materials - and how to both avoid these errors and correct them if they occur. 5. Discuss need for and demonstrate placement of rubber dams on both a typodont and patients. Prerequisite: Admission to the Dixie State University Dental Hygiene program. FA.

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DHYG 3065. Community Oral Health Lab I (ALCS). 1 Hour.
This is the lab/service learning portion of DHYG 3060. The course provides experiential learning of topics related to community health or service learning experiences. Students will provide clinical and/or educational services in a community or public health setting. Additional experiential opportunities explore professional roles of the dental hygienist in inter-professional healthcare settings and with diverse population groups. This course is designated as an Active Learning Community Service (ALCS) course. Students provide service in areas of public concern in a way that is mutually beneficial for both the student and community. This course requires a Differential Tuition Rate which is an additional fee of $215 charged per credit hour. **COURSE LEARNING OUTCOMES (CLOs) At the successful conclusion of this course, students will be able to: 1. Apply Motivational Interviewing skills to Tobacco Cessation sessions with a patient or public health situation. 2. Apply selected social, educational and behavioral science theories to dentistry, the public and its oral health status. 3. Identify learning strategies for delivering health information to consumer groups by using innovative visual materials and activities and methods of evaluating the effectiveness of strategies. 4. Develop audiovisual materials and integrate their use into an oral health presentation. 5. Develop and implement a lesson plan for varied populations. 6. Observe and discuss the role of a public health dental hygienist in a public health setting. Prerequisite: Admission to the Dixie State University Dental Hygiene program. SP.

DHYG 3515. Dental Hygiene Clinic V (ALCS). 5 Hours.
Service Learning course. Supervised experience in the clinical setting with continued development of clinical proficiency and decision making in rendering comprehensive preventive oral health services using dental hygiene processes. Emphasis on clinical appreciation and development of skills in maintenance, management and evaluation of the periodontal patient; treatment planning; disease control; scaling and root planning for the periodontally involved patient; and increased treatment in the expanded duties of the dental hygienist. This course is designated as an Active Learning Community Service (ALCS) course. Students provide service in areas of public concern in a way that is mutually beneficial for both the student and community. This course requires a Differential Tuition Rate which is an additional fee of $215 charged per credit hour. **COURSE LEARNING OUTCOMES (CLOs) At the successful conclusion of this course, students will be able to: 1. Collect assessment data and using theory and data develop a dental hygiene diagnosis and individualized treatment plan. 2. Present individualized treatment plan and obtain informed consent. 3. Operate and document all aspects of the individualized dental hygiene treatment plan including patient education and treatment outcomes. 4. Demonstrate operation and maintenance of dental equipment. 5. Adhere to infection control measures based on the theory of disease transmission. 6. Demonstrate detection and removal skills for supragingival and subgingival calculus and biofilm. 7. Demonstrate technique and interpretation skills with dental radiograph exposures. 8. Perform a self-evaluation: identifying areas for improvement. 9. Follow written clinical policies and procedures as documented in the DSUDH Policies and Procedures Manual. Prerequisite: Admission to the Dixie State University Dental Hygiene program. SP.

DHYG 3555. Expanded Functions Clinic II. 1 Hour.
Continuation and amplification of skills developed in DHYG 3850 and DHYG 3055, emphasizing clinical experience in restorative expanded functions and four-handed dentistry. This course requires a Differential Tuition Rate which is an additional fee of $215 charged per credit hour. **COURSE LEARNING OUTCOMES (CLOs) At the successful conclusion of this course, students will be able to: 1. Explain the necessity of checking the patient’s functional occlusion before and after placing and carving a restoration. 2. Summarize and demonstrate the basic placement and carving steps for both amalgam and composite restorations. 3. Describe the most common errors made when placing, carving and manipulating both amalgam and composite materials - and how to both avoid these errors and correct them if they occur. 4. Describe the benefits of low and high speed amalgam polishing. 5. Utilize the principles of four-handed dentistry, patient, operator and assistant positioning, and four-handed instrument transfer. 6. Produce amalgam and composite restorations that are functional in the mouth. Prerequisite: Admission to the Dixie State University Dental Hygiene program. SP.

DHYG 3560. Public Health Administration. 2 Hours.
This blended (hybrid) course explores the public health paradigm on the general policies, philosophies and current public/community health issues. Emphasis is placed on assessment of oral health needs, planning and evaluation of oral health promotion and disease prevention programs. Explores complex issues related to the delivery of healthcare both on a national level and individually to populations with unique socialization and clinical needs. Cultural diversity and cultural care is explored for a broad range of populations. This course requires a Differential Tuition Rate which is an additional fee of $215 charged per credit hour. **COURSE LEARNING OUTCOMES (CLOs) At the successful conclusion of this course, students will be able to: 1. Identify effective assessment, planning, implementation and evaluation objectives for dental public health programs. 2. Utilize oral health indices, tests, inventories, interviews or other data gathering methods to assess the oral health status and oral health needs of a defined population. 3. Design an oral health project utilizing the models, steps and procedures involved in planning an effective community oral health program based on the needs and resources of a defined population. 4. Display understanding and sensitivity to the health care needs of the community. 5. Define and describe the term social responsibility and the role of the dental hygiene professional in the context of the greater society. 6. Discuss the responsibility of the dental hygienist with respect to cultural competence and the role in cultural care in public health. 7. Critique, synthesize and apply information from scientific and lay sources to improve the public’s oral health. 8. Define health literacy and oral health literacy for the health care provider and dental public health professional and explain strategies to communicate more clearly with patients, the public, or community. 9. Demonstrate the ability to communicate and collaborate with relevant stakeholders to advocate for policies that impact oral and general health for individuals or populations. Prerequisite: Admission to the Dental Hygiene program. SP.
DHYG 3565. Community Oral Health Lab II (ALCS). 1 Hour.
This course emphasizes community oral health field activity with practical experience in assessment, planning, implementation and evaluation of a public oral health program in a variety of community or public health settings. Additional experiential opportunities explore the professional roles of the dental hygienist in inter-professional healthcare settings and with diverse population groups. This course is designated as an Active Learning Community Service (ALCS) course. Students provide service in areas of public concern in a way that is mutually beneficial for both the student and community. This course requires a Differential Tuition Rate which is an additional fee of $215 charged per credit hour. **COURSE LEARNING OUTCOMES (CLOs) At the successful conclusion of this course, students will be able to: 1. Design, implement and evaluate lesson plans during service-learning rotations. 2. Provide oral health information to a variety of child and adult communities. 3. Provide dental hygiene treatment in a public health setting. 4. Observe and discuss the role of a public health dental hygienist in a public health setting. 5. Function as an oral health educator, practitioner and resource person in the educational setting. Prerequisite: Admission to the Dixie State University Dental Hygiene program. SP.

DHYG 3570. Advanced Theory and Practice II (ALPP). 2 Hours.
Designed to transition students into diverse employment settings. Study of clinical care for the disabled and physically and mentally impaired patient. Students will also learn the principles of practice management, how to work with a team, common employee and employer expectation, how to construct an effective resume and learn the process of a working and standard interview. Future trends in oral health care and their impact on the profession of dental hygiene will also be examined. This course is designated as an Active Learning Professional Practice (ALPP) course. This course allows students to explore and apply content learned in the course in a professional experience away from the classroom. This course requires a Differential Tuition Rate which is an additional fee of $215 charged per credit hour. **COURSE LEARNING OUTCOMES (CLOs) At the successful conclusion of this course, students will be able to: 1. Analyze aspects of practice management as it relates to the dental hygiene practice. 2. Investigate the business of dental hygiene. 3. Apply the steps to seeking a dental hygiene position. 4. Summarize the importance of planning for the future and career longevity. 5. Implement customized patient care in a timely manner consistent with office practice. 6. Explain process of care for the disabled and physically and mentally impaired patient. Prerequisite: Admission to the Dixie State University Dental Hygiene program. SP.

DHYG 3580R. Advanced Clinical Studies. 3 Hours.
Opportunity to acquire additional clinical dental hygiene experience as required to remediate, maintain, or improve the clinical skills of dental hygiene students or graduates. Prerequisites can also be met by having an AAS degree in Dental Hygiene; or by permission of the Dental Hygiene Program Director. Repeatable up to 6 credits subject to graduation restrictions. Offered by arrangement. This course requires a Differential Tuition Rate which is an additional fee of $215 charged per credit hour. **COURSE LEARNING OUTCOMES (CLOs) At the successful conclusion of this course, students will be able to: 1. Demonstrate the ability to detect calculus, classify periodontal disease, and educate patients regarding oral health status. 2. Demonstrate the ability to detect calculus, classify periodontal disease, and educate patients regarding oral health status. 3. Demonstrate the ability to research and evaluate candidate guides for successful performance on state or regional clinical examinations. 4. Describe compliance with state laws governing the practice of dental hygiene. Prerequisites: DHYG 1015; and DHYG 2517; and DHYG 3015; and DHYG 3515; and instructor permission.

DHYG 3590. Oral Microbiology. 2 Hours.
Provides knowledge of mechanisms and structures of bacteria colonizing the oral cavity. Focus is on those specific bacteria that contribute to the pathogenesis of two major oral diseases specifically, periodontitis and dental caries. The role of biofilm in pathological outcomes and possible involvement oral bacteria have in exacerbation of systemic diseases are also explored. This course requires a Differential Tuition Rate which is an additional fee of $215 charged per credit hour. **COURSE LEARNING OUTCOMES (CLOs) At the successful conclusion of this course, students will be able to: 1. Explain the relationship between the microbiological environment and the pathology of oral diseases. 2. Recognize the basic principles of immunology. 3. Describe microbes and infections of relevance to dental hygiene including bacterial, viral and fungal species. 4. Apply knowledge of oral disease identification, etiology, epidemiology, and pathology, to determine dental hygiene treatment and management. Prerequisite: Admission to the Dixie State University Dental Hygiene Program. FA.

DHYG 3890. Pain Control Methodology. 1 Hour.
Designed for the student to gain an understanding of neurophysiology of pain and the methods to manage and control this for patients before, during and after procedures. They will gain a working knowledge of the mechanism of action of local anesthetic agents, how to titrate and deliver them to the patient safely. The patient evaluation of dental anxiety will be addressed and the efficacy and mechanism of action of nitrous oxide: oxygen sedation taught. The management of medical emergencies as related to the pharmacological agents used in the dental hygiene setting will be reviewed and evaluated. This course requires a Differential Tuition Rate which is an additional fee of $215 charged per credit hour. **COURSE LEARNING OUTCOMES (CLOs) At the successful conclusion of this course, students will be able to: 1. Recognize the need for pain control. 2. Compare and contrast the limitations of local anesthesia and nitrous oxide oxygen sedation. 3. Review and evaluate the patient medical history in relation to local anesthesia and sedation. 4. Compare pain management techniques to minimize or reduce discomfort. 5. Determine the minimum and maximum safe doses of anesthetic specific for the patient. 6. Upon completion of this course the student will be able to recognize and evaluate the possible interactions of local anesthesia with other medications. 7. Upon completion of this course the student will be able to recognize potential medical emergencies and identify the proper response for the safety and well-being of the patient. Prerequisite: Admission to the Dixie State University Dental Hygiene program. SP.
DHYG 3895. Pain Control Methodology Clinic. 1 Hour.
Clinical course allows the students to practice the administration of local anesthetic and nitrous oxide/oxygen sedation on patients. Students will learn to handle the armamentarium of local anesthesia and deliver a number of anatomical nerve blocks of the oral structures. Introduction and hands on practice to competency level will be achieved during the clinical sessions. This course requires a Differential Tuition Rate which is an additional fee of $215 charged per credit hour. **COURSE LEARNING OUTCOMES (CLOs) At the successful conclusion of this course, students will be able to: 1. Review and annotate the patient medical history and treatment record in relation to local anesthesia and inhalation sedation, including vital signs, informed consent, complications or contraindications and doses delivered. 2. Identify and properly use local anesthetic, inhalation sedation and emergency medical equipment in both a laboratory and student clinic setting. 3. Successfully deliver local anesthetic agents to multiple areas of the oral cavity on student patients in the student clinic. 4. Successfully deliver nitrous oxide:oxygen sedation for patient anxiety control to student patients in the student clinic. 5. Apply pain management techniques to minimize or reduce discomfort. 6. Recognize potential medical emergencies and respond in a proper manner for the safety and well-being of the patient. Prerequisite: Admission to the Dixie State University Dental Hygiene program. SP.

DHYG 3990. Seminar in Dental Hygiene. 0.5-3 Hours.
For students wishing instruction that is not available through other regularly scheduled courses in this discipline. Occasionally, either students request some type of non-traditional instruction, or an unanticipated opportunity for instruction presents itself. This seminar course provides a variable-credit context for these purposes. As requirements, this seminar course must first be pre-approved by the department chair; second, it must provide at least nine contact hours of lab or lecture for each credit offered; and third, it must include some academic project or paper (i.e., credit is not given for attendance alone). This course may include standard lectures, travel and field trips, guest speakers, laboratory exercises, or other non-traditional instruction methods. Note that this course is an elective and does not fulfill general education or program requirements. Instructor permission will be optional at the request of the instructor. This course requires a Differential Tuition Rate which is an additional fee of $215 charged per credit hour. **COURSE LEARNING OUTCOMES (CLOs) At the successful conclusion of this course, students will be able to: 1. Describe the pursuit of life-long learning and professionalism in providing quality evidence-based healthcare. 2. Formulate a comprehensive dental hygiene careplan. 3. Demonstrate competency in dental instrument selection and use for specific patient needs.

DHYG 4010. Biostatistics. 2 Hours.
Online course covering the introductory principles of biostatistics and the interpretation and use of classical statistical approaches to evaluate statistical conclusions, describe the oral health of populations and influence clinical decision making. This course requires a Differential Tuition Rate which is an additional fee of $215 charged per credit hour. **COURSE LEARNING OUTCOMES (CLOs) At the successful conclusion of this course, students will be able to: 1. Analyze a given study for quantitative and qualitative data yield. 2. Identify types of variables and apply hypothesis testing. 3. Differentiate between various tests of statistical significance. 4. Interpret data using biostatistical principles and evaluate conclusions based on study data. 5. Apply knowledge of biostatistics to critically evaluate statistical conclusions in the medical literature for evidence based clinical decision making. Prerequisite: Admission to the Dixie State University Dental Hygiene program. SU.

DHYG 4020. Research Methodology. 2 Hours.
Online course covering fundamental and working knowledge of scientific method employed in oral health research. Students will perform critical analysis of research utilizing scientific method and evidence-based publications. This course requires a Differential Tuition Rate which is an additional fee of $215 charged per credit hour. **COURSE LEARNING OUTCOMES (CLOs) At the successful conclusion of this course, students will be able to: 1. Discuss how dental hygiene research impacts the profession and practice of dental hygiene. 2. Describe the scientific method and research process. 3. Discuss different research designs and when each is appropriate to use. 4. Explain how an Evidence-based Decision Making approach enhances critical thinking and professional decision-making regarding patient care. 5. Conduct an effective literature search using electronic databases, professional journals, government documents, product literature and other “paper” publications. 6. Critically analyze published reports of oral health and apply this information to the practice of dental hygiene. 7. Demonstrate the ability to communicate professional knowledge in writing. Prerequisite: Admission to the Dixie State University Dental Hygiene program. SU.

DHYG 4030. Leadership & Group Dynamics. 2 Hours.
Online course focusing on the theories, concepts, and principles of leadership; emphasizes the development of leadership skills related to personal behavior, communication, organization, and self-examination; and explores the opportunity to develop leadership roles appropriate to the dental hygiene profession. This course requires a Differential Tuition Rate which is an additional fee of $215 charged per credit hour. **COURSE LEARNING OUTCOMES (CLOs) At the successful conclusion of this course, students will be able to: 1. Apply leadership theories, concepts, and principles as leaders in the community, as a student, volunteer, or employee. 2. Demonstrate critical and creative thinking about the role of leadership in today's society. Prerequisite: Admission to the Dixie State University Dental Hygiene program. SU.
DHYG 4570. Senior Project (ALCE). 2 Hours.
The Community Oral Health Senior Project will provide students with the opportunity to apply knowledge, skills and values attained during the program curriculum to demonstrate competency required for Institutional Learning Outcomes and Program Learning Outcomes. This hybrid course will help students gain knowledge in adult learning and instructional design as they develop a lesson plan that will be presented to an adult population in need of oral health education. Students will apply evaluation techniques to assess the learning of their population as well as their own learning. This course is designated as an Active Learning Civic Engagement (ALCE) course. Students will be working to make a difference in the civic life of our community through both political and nonpolitical processes. This course requires a Differential Tuition Rate which is an additional fee of $215 charged per credit hour. **COURSE LEARNING OUTCOMES (CLOs) At the successful conclusion of this course, students will be able to: 1. Design a capstone project to address the oral health care needs of a target population. 2. Effectively work with a community partner in the implementation of community oral health project. 3. Discuss how to effectively teach adult learners. 4. Design and develop an instructional module including goals, learning objectives, and outcomes. 5. Analyze measures of central tendency to evaluate the oral health knowledge and behavior of a target population. 6. Demonstrate mastery of the DSUDH BS Program Learning Outcomes in conjunction with the DSU Institutional Learning Outcomes. Prerequisite: Admission to the Dixie State University Dental Hygiene program. SP.