Dental Hygiene

1st Floor Taylor Health Science Bldg.
(435) 879-4905
http://dixie.edu/health/dental/

To find faculty & staff phone numbers and email addresses, please consult the University Directory (http://www.dixie.edu/directory/directory.php).

**Department Chair**
Patricia Wintch MSDH

**Administrative Assistant for Dental Hygiene**
Rachel Christ

**Clinic Manager**
Elyse Perkins

**Health Sciences Advisor**
Cindy Clark

**Dean**
Eliezer Bermudez, Ph.D.

**Administrative Specialist**
Merilee Gustafson

**Program Description**
The Dixie State University Baccalaureate of Science in Dental Hygiene Program strives to produce dental hygienists of the highest ethical and professional standards by providing an exceptional academic and experiential curriculum, serving the needs of the students, the University and the community at large. The program vision is to provide a progressive education which prepares the graduate to promote the art and science of the advancing dental hygiene profession.

**Licensure**
All Baccalaureate of Science in Dental Hygiene students will comprehensively prepare for success on the National Board of Dental Hygiene Examination and Regional or State Board Exams.

**Accreditation**
The Dixie State University Dental Hygiene Program is fully accredited by the Commission on Dental Accreditation (CODA). The Commission on Dental Accreditation, which operates under the auspices of the American Dental Association, is a peer review mechanism that include the involvement of members of the discipline, the broad educational community, employers, practitioners, then dental licensing community and public members. All of these groups participate in a process designed to ensure educational quality.

The Commission on Dental Accreditation can be contacted at:

211 East Chicago Avenue
Chicago IL 60611
(312) 440-4653
http://www.ada.org

**Facilities**
The Dixie State University Dental Hygiene Program is located on the first floor in the state-of-the-art Russell C. Taylor Health Science Building. The building is located at 1526 E. Medical Center Drive, St. George UT. The Dixie State University Dental Hygiene Program has a 24-chair campus dental clinic as well as a 4-chair mobile dental clinic.

**Clubs**
The Dental Hygiene students belong to the Student American Dental Hygienists Association (SADHA). The purpose of SADHA is to help students understand the unique demands and experiences student dental hygienists encounter on the road to graduating and obtaining licensure. The goal of SADHA is to empower, support, and develop student members by offering professional development, leadership, and recognition of achievements.
Services
The Dixie State University Dental Hygiene Program offers many dental hygiene services at a greatly reduced rate. Please contact Dental Hygiene Clinic at (435) 879-4900 for information.

Course Prefixes
- DHYG

Degrees & Certificates
- Bachelor of Science in Dental Hygiene (catalog.dixie.edu/programs/dentalhygiene/bachelor_of_science_in_dental_hygiene_new)

Admission Requirements
Students are admitted to the dental hygiene program without discrimination regarding, gender, age, creed, ethnic origin, or marital status. Individuals should give careful consideration to the mental and physical demands of the program prior to making application. The pressure involved in undertaking the responsibilities of direct patient care should be considered when applying to the program.

To be considered for admission to the Dental Hygiene program, applicants must first apply to become a student of Dixie State University. All applicants must also complete a dental hygiene application.

Prerequisite courses which must be completed before applying to the Dental Hygiene program:

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>BIOL 2320</td>
<td>Human Anatomy</td>
<td>5</td>
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<tr>
<td>&amp; BIOL 2325</td>
<td>and Human Anatomy Lab</td>
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<tr>
<td>BIOL 2420</td>
<td>Human Physiology</td>
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<td>&amp; BIOL 2425</td>
<td>and Human Physiology Lab</td>
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<tr>
<td>CHEM 1110</td>
<td>Elementary General/Organic Chemistry (PS)</td>
<td>4</td>
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<tr>
<td>FSHD 1020</td>
<td>Sci Foundations of Nutrition (LS)</td>
<td>3</td>
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CHEM 1115 is co-requisite to CHEM 1110, but not required for Dental Hygiene program admission.

Prerequisite courses which must be completed before beginning the Dental Hygiene program:

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tr>
<td>ENGL 1010</td>
<td>Introduction to Writing (EN)</td>
<td>3</td>
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<tr>
<td>or ENGL 1010D</td>
<td>Introduction to Writing (EN)</td>
<td></td>
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<tr>
<td>ENGL 2010</td>
<td>Interm Writing Selected Topics: (EN)</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1040</td>
<td>Introduction to Statistics (MA)</td>
<td>3</td>
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<tr>
<td>PSY 1100</td>
<td>Human Development Through Lifespan (SS, GC)</td>
<td>3</td>
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<tr>
<td>or PSY 1010</td>
<td>General Psychology (SS, GC)</td>
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<tr>
<td>SOC 1010</td>
<td>Introduction to Sociology (SS, GC)</td>
<td>3</td>
</tr>
<tr>
<td>or SOC 1020</td>
<td>Social Problems (SS, GC)</td>
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The applicant must be admitted to Dixie State University, all prerequisite requirements must be met, and the following must be received by the application deadline:

- Official transcript showing grades for all pre-requisite classes submitted directly to the Dental Hygiene Department (in addition to the official transcript sent to the DSU Admissions Office). Applicants will be judged on their performance in the Chemistry, Biology, and Nutrition & Family Science classes listed above.
- Confirmation of 100 minimum clinical hours (must be on dentist’s letterhead, signed by dentist and stating exact hours)
- Completed background check: Students with a history of misdemeanors, felony charges or convictions involving moral turpitude may not be eligible for state licensure and should contact the Dental Hygiene department before enrolling.

A pool of applicants will be invited to complete additional tests at Dixie State University on specific dates. Applicants will be invited to enroll based on their performance in specific courses and on the required tests. Students who enroll in the Dental Hygiene program will be required to provide proof of CPR/AED and health care provider First Aid certification and specific immunizations.

Class size for the Baccalaureate of Science in Dental Hygiene program: 20-24 students.
Career Opportunities

Most dental hygienists work in private dental offices, but many provide preventive and educational services in community health clinics and hospitals, military installations, and schools. Graduates will be qualified for an array of challenging career opportunities in public health, administration, teaching, research, management, and related fields.

Some dental hygienists advance into management positions and supervise other hygienists. Those who obtain a bachelor’s or master’s degree may become teachers, researchers, or administrators in dental hygiene programs. Some hygienists become dental sales representatives or work for drug companies.

Job Outlook

Dental hygiene is among the fastest growing occupations. Employment of dental hygienists is expected to grow 19% from 2014 to 2024. Job prospects are expected to be favorable in most areas but will vary by geographic location.

Salary Range

The median annual wage for dental hygienists in May 2015 was $72,330. The lowest 10 percent earned less than $50,140, and the highest 10 percent earned more than $98,440. However, salaries vary by geographical location, employment setting, and years of experience.

* Data from the Occupational Outlook Handbook, 2015

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. Research topics in dental hygiene care and report findings through a written report in APA format. 2. Recognize the process 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. 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. Develop 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, 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. 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 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 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 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 DHYG 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. Head/Neck Anatomy. 3 Hours.
The student will study the anatomy and physiology of the head and neck, including the bones, muscles, glandular tissue, innervation, blood supply, lymphatic drainage and temporomandibular joint. Emphasis is on location, function, nomenclature and clinical considerations of normal anatomy and variations. The course will include the anatomy of the most common local anesthetic injections and the anatomic spread of infection. 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 bones, muscles and structures, including glands, blood vessels, nerves and lymphatics of the head, neck and oral cavity. 2. Differentiate the function of the bones, muscles, glands, nerves, lymphatics and blood vessels of the head, neck and oral cavity. 3. Identify the anatomy of oral local anesthetic injections. 4. Describe the progression of infection in the head and neck from the oral cavity and dental origins. Prerequisite: Admission to the Dixie State University Dental Hygiene program. Prerequisite: Admission to the Dixie State University Dental Hygiene program. Prerequisite: DHYG 2020. 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 the terminology of the dentition in appropriate clinical discussions. Prerequisite: Admission to the Dixie State University Dental Hygiene program. Corequisite: DHYG 2040. FA.

DHYG 2052. Oral Histology/Embryology. 2 Hours.
To acquire an understanding of how cells, tissues, and organs develop and function, with emphasis placed on the oral cavity, including a review of basic cells and embryologic developments. Histology of the structures of the oral cavity from embryonic stages through complete development are examined. Common embryologic defects of the oral cavity are covered also. 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 photomicrograph and diagram the hard and soft tissues of the oral cavity. 2. At the completion of this course the student will be able to describe the development of the hard and soft tissues of the head and neck and oral cavity. 3. At the completion of this course the student will be able to organize the embryological steps of the development of the head and neck. 4. At the completion of this course the student will be able to describe the potential for birth defects in hard and soft tissues from an embryological context. Prerequisite: Admission to the Dixie State University Dental Hygiene Program. 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 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 record. Prerequisite: Admission to the Dixie State University Dental Hygiene program. FA.
DHYG 2510. Dental Hygiene Theory II. 3 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 patient care. 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. SP.

DHYG 2517. Dental Hygiene Clinic II. 4 Hours.
Clinical portion of DHYG 2510. 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. Periodontics I. 3 Hours.
Principles of periodontology 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 DHYG 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 the ability to accurately educate patients as the need arises. 2. Identify and demonstrate the appropriate use 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 fabricate bleeding 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: DHYG 2580. SP.

DHYG 3015. Dental Hygiene Clinic IV. 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 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. Implement 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. FA.

DHYG 3020. Special Care Populations and Cultural Diversity. 2 Hours.
Students explore psycho-social, physical and oral characteristics of special needs patients. ‘Health, Illness, and Healing’ are explored across diverse cultures along with reflection of the student’s own perceptions. Explores complex issues related to the delivery of healthcare both on a national level and individually to populations with unique cultural, socialization and clinical needs. 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 procedures and factors that contribute to safe and successful management of individuals with disabilities during dental hygiene care. 2. Identify and be able to provide comprehensive dental hygiene treatment strategies for patients with neurodevelopmental disorders. 3. Discuss the role of the dental hygienist in the pre- and postsurgery care of the oral and maxillofacial surgery patients. 4. Discuss the meanings of culture, ethnicity, religion, and socialization and their contribution to health, health beliefs, and practices. 5. Describe the "culture" of the health care providers and compare modern medical care and cultural care. 6. Relate the health traditions of people from many different cultural heritages. Prerequisite: Admission to the Dixie State University Dental Hygiene program. FA.

DHYG 3030. Periodontics II. 3 Hours.
Continuation of DHYG 2540 with emphasis on aggressive forms of periodontal disease, periodontal treatment planning, maintenance procedures, surgical procedures, related systemic diseases and therapy. 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 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.

DHYG 3050. Legal & Ethical Issues. 2 Hours.
Current legal and ethical issues that influence the practice of dental hygiene. 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. Acquire the ethical standards and legal perspectives that, if implemented, would prevent malpractice and minimize professional liability. 2. Identify the significant factors, values, issues, and special interests that affect healthcare providers, healthcare delivery and healthcare finance. 3. Apply ethical reasoning and reflective thinking to defend a specified course of action in a scenario that contains an ethical dilemma. 4. Know the ethical standards, regulatory requirements, and legal perspectives, which if applied, would manage risks and professional liability. 5. Discuss and relate the Utah Dentist and Dental Hygienists Practice Act and the Practice Act Rules. 6. Discuss legislative activities occurring at state and federal levels affecting dental hygiene. Prerequisite: Admission to the Dixie State University Dental Hygiene program. FA.
DHYG 3055. Expanded Functions Clinic I. 1 Hour.
Clinical application of expanded duties for the dental hygienist, including anesthesia, placing and removing rubber dams; matrix and wedge; placing bases and liners; placing, carving, and finishing amalgam restorations; placing and finishing tooth-colored restorations; placing temporary restorations; 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. 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.

DHYG 3060. Community Oral Health. 2 Hours.
The dental hygiene student will have an introduction to the principles of dental public health, community oral health education and community program planning. This course will prepare the dental hygiene student for the role of dental public health practitioner, educator, consultant, and resource person in community settings. 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. Describe the goals and functions of federal, state, local and voluntary health care agencies and programs. 3. Recognize cultural, demographic and socioeconomic factors, which influence dental health need and demand. 4. Utilize oral health indices, tests, inventories, interviews, scientific literature or other data gathering methods to assess the oral health status and oral health needs of a defined population. 5. Design an oral health proposal 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. 6. Apply current educational and psychological concepts, learning theories, methods and strategies to dental health education. Prerequisite: Admission to the Dixie State University Dental Hygiene program. FA.

DHYG 3065. Community Health Services Lab. 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 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. FA.

DHYG 3515. Dental Hygiene Clinic V. 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 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. Implement 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. Community Public Health Administration. 2 Hours.
Course including 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. Also assists identification of career opportunities within public health settings. 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. 10. Assess risk for oral diseases and select appropriate, evidence-based preventive interventions and strategies to promote health and control oral diseases at the individual and population level. Prerequisite: Admission to the Dental Hygiene program. SP.

DHYG 3565. Community Oral Health Lab. 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 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. Dental Hygiene Practice Management. 1 Hour.
Students will learn the principles of practice management as it relates to dental hygiene, common expectations for employer and employee, and how to work with a team and manage a dental hygiene practice. Students will construct an effective resume and learn the process of working and standard interviews. Future trends in oral health care and their impact on practice will be examined. 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. 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 select a clinical board patient through calculus detection and periodontal health classification. 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 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 & Epidemiology. 2 Hours.
Online course covering principles and methods of epidemiologic investigation and the use of classical statistical approaches to describe the oral health 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. Apply epidemiologic concepts and principles to critically evaluate evidence used in medical decision making. 2. Identify quality, types and variation of data using epidemiological and bio-statistical principles. 3. Distinguish between different types of research design. 4. Discuss statistical foundations of clinical decision making. 5. Apply statistics to trial design including sample size, randomization and control for multiple hypotheses. 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 4510. Instructional Design and Practice. 2 Hours.
This course will introduce the A.D.D.I.E. model of instructional design. Students will understand instructional design models used in education and will develop a set of outputs by creating instructional material for an adult target population. Instructional strategies such as motivation, active learning, and discussion will be learned and applied in the design and development of instructional 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 how to effectively teach adult learners. 2. Discuss the stages of the ADDIE model of instructional design. 3. Discuss motivational techniques and how to create a positive learning environment with active learning strategies. 4. Design and develop an instructional module including goals, learning objectives, and outcomes. Prerequisite: Admission to the Dixie State University Dental Hygiene program. SP.

DHYG 4570. Senior Project. 2 Hours.
Online capstone course provides students with the opportunity to apply knowledge, skills and values attained during the program curriculum to demonstrate competency required in student learning outcomes. 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 need of a target population. 2. Work with a community partner in the implementation of community oral health project. 3. Apply methods of biostatistics analysis measures of central tendency to assess the oral health status and oral health needs of a defined population. 4. 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.