

## Indiana University School of Dentistry

Allied Dental Education programs at the Fort Wayne campus:

Certified Dental Assisting (CDA)

Dental Hygiene (BSDH)

Dental Technology (BSDT)

### Dental Education

The IU School of Dentistry offers the following dental programs on the Fort Wayne campus: dental assisting, dental hygiene, and dental technology.

The IUFW Certified Dental Assisting Program curriculum includes didactic, laboratory, and clinical courses, as well as clinical experiences in general and specialty practices throughout northeastern Indiana. The professional curriculum is a structured, full-time program beginning each fall semester that prepares students for a career as a dental healthcare professional. The program offers a full-time curriculum that is accredited by the American Dental Association's Commission on Dental Accreditation.

The B.S. in Dental Hygiene program prepares students for a career as a dental health professional who specializes in educational, preventive, and therapeutic oral healthcare. The dental hygiene B.S. program involves one year of prerequisite courses and three years of dental hygiene courses, and combines didactic, laboratory, and clinical courses. The program offers a full-time curriculum that is accredited by the Commission on Dental Accreditation of the American Dental Association.

The dental technician functions within the dental health team much as a pharmacist functions within the medical care team. The technician fabricates appliances to the specification of a work authorization provided by the dentist. It is recommended anyone interested in a career in dental technology spend some time at local commercial dental laboratories to evaluate the day-to-day operation of the dental technician. The program has maintained full accreditation by the American Dental Association's Commission on Dental Accreditation since its beginning in 1972.

### Admissions

Admission into the IUFW Allied Dental Education programs is competitive. To be eligible for admission to the programs offered by the school, students must adhere to the academic regulations of the academic unit in which they are enrolled and meet school and program admission requirements as stipulated in the program sections of this bulletin.

Admission for:

- Certified Dental Assisting
- Dental Hygiene
- Dental Technology

### Program Admissions

#### Admissions Dental Assisting Certificate

Space in the CDA program is limited to 20 students per year. Admission is competitive, and the number of eligible applicants each year may exceed the number of spaces available.

#### Application Deadline

Your acceptance into the program is based on timely completion of all requirements.

Apply to the CDA program by submitting the program application, observation forms, and official transcripts (high school and/

or college). Applications will be accepted each year through the priority application deadline of June 15th. Applications received after the June 15th deadline will be considered on a space available basis only.

### **Before Admission into the program:**

- A minimum cumulative in English coursework and Science coursework is required to be eligible for entrance into the dental assisting program. Both high school and college GPA's are evaluated.
- Completion of all IUSD required immunizations and/or pre-clinical requirements including BLS/AED/ CPR certification; criminal background check; health insurance; program and course orientations.

### **Admissions Dental Hygiene**

Admission into the Dental Hygiene Program is highly competitive, and class sizes are limited. To be accepted into the program, you must:

Complete a minimum of four hours in a dental office, observing a dental hygienist providing patient-care services. Observation verification forms are provided by the IUFW Dental Hygiene Program. They are also available on the website.

Submit the following information to the IUFW Dental Hygiene Program by February 1st of the year in which you are applying for enrollment:

1. Apply to the University and be admitted as a degree seeking student prior to May 25.
2. IUFW Dental Hygiene Program application. NOTE: Copies of applications from other programs are NOT accepted.

3. IUFW Curriculum Information form.
4. IUFW Observation Verification form(s).
5. Official college transcripts from all colleges/universities attended, other than Indiana University.\*
6. All applications must be received on or before the February 1st deadline.

#### Prerequisite Courses

All prerequisite courses must be completed by June 1st with a grade of "C-" or better.

No exceptions will be made for courses completed after June 1st. Final transcripts must be received by the Dental Hygiene Program no later than May 25th.

The prerequisite courses for the Dental Hygiene Program are as follows:

Course Number	Name	Credits
ENG W13100	Reading, Writing, & Inquiry I;	3cr
COM 11400	Fundamentals of Speech Communication;	3cr
CHM 10400	Living Chemistry;	1 cr
CHM 29001	Selected Topics in Chemistry (Lab);	1 cr
PSY 12000	Elementary Psychology;	3 cr
SOC S16100	Principles of Sociology;	3 cr
BIOL 20300	Human Anatomy & Physiology I w/lab;	4 cr
BIOL 20400	Human Anatomy & Physiology II w/lab;	4 cr
BIOL 22000	Microbiology for Allied Health Professionals w/ lab;	4 cr*

\*Corequisite, must be completed prior to starting Fall term

#### Optional Electives:

FWHS-H101 First Year Seminar Introduction to Health Sciences; 1 cr

DAST-A122 Introduction to Dentistry; 1 cr

Minimum Credit Hours: 28

Prior to entering the Dental Hygiene Program, other strongly recommended courses include:

RADX-R185 Medical Terminology; 3cr

Repeat Attempts. A student may make two graded attempts at a prerequisite course, with the most recent grade calculated in the prerequisite GPA. The student's two attempts will include any graded attempt, whether or not eliminated from the student's GPA by grade replacement.

### **Admissions Dental Technology**

Apply for admission to Indiana University through IUFW at <https://www.iufw.edu/admissions/index.html>

A separate application (PDF) for the dental laboratory technology program must be received by November 15th.

The following are prerequisite course requirements and need to be completed with a grade of "C-" or better.

- COM 11400, Fundamentals of Speech
  - ENG W13100, Reading, Writing, & Inquiry I
1. Students must have completed a minimum of 15 credit hours of college level coursework prior to being accepted into the program.
  2. Students must pass all prerequisite courses with a "C-" or better.
  3. Students may repeat required prerequisite courses ONE time. However, the second grade is used to calculate prerequisite GPA. Grades are not averaged.
  4. All prerequisite courses must be completed by the end of the fall semester for the year in which you

are applying to receive full application status.

5. Students must have a minimum prerequisite GPA of 2.0/4.0.
  6. Students must also have a minimum cumulative GPA of 2.0/4.0.
  7. A personal interview with the dental technology admissions committee may also be required to determine final class selection. After completion of steps 1, 2, and 3, an interview appointment (if necessary) will be made with the admissions committee.
  8. Applicants accepted to the program are required to attend the program orientation. Admitted students will be notified the exact date.
- Applicants must return the acceptance form by the deadline stated in the acceptance letter.
  - Applicants must demonstrate ability to meet the IU School of Dentistry Technical Standards as well as:
    - recent physical examination (the summer before the program begins)
    - recent TB test (the summer before the program begins)
    - receive the three Hepatitis B immunizations (before the program begins) and a Hepatitis B titer (blood test). The Hepatitis B vaccination series with the titer blood test is a process that takes 7-8 months to complete. The Hepatitis B lab titer (anti-HBs blood test), which proves your immunity must be received by October 1. The titer results should be Positive (to indicate positive immunity to HBV), not Negative. If the titer results are Negative, it will be necessary to repeat the vaccination series and titer test. (refer to your

healthcare provider for more information.)

- Complete a criminal background check. Students will receive on-line instructions at orientation.
- Applicants who have served in the military must submit military papers in order to receive credit for courses taken.
- Students in the professional dental programs must pass a drug screening test, if requested.

#### Admission Policies

Reapplying. Students who have not been accepted, but who are qualified, may reapply for admission. Students who decline admission two times will no longer be considered.

Repeat Attempts. A student may make two graded attempts at a prerequisite course, with the most recent grade calculated in the prerequisite GPA. The student's two attempts will include any graded attempt, whether or not eliminated from the student's GPA by grade replacement.

In addition to the Dental Technology classes, students must also complete required General Education courses. See Program Curriculum for requirements.

For further information and/or application, please contact:

Division of Allied Dental Education

Indiana University Fort Wayne 2101 E. Coliseum Blvd.

Fort Wayne, IN 46805-1499 Telephone: 260-481-6837

Fax: 260-481-4162

#### Accreditation, Memberships & Designations

All IUFW Allied Dental Education programs are accredited by the Commission on Dental Accreditation (CODA) and have been granted the accreditation status of "Approval without Reporting Requirements." The Commission on Dental Accreditation can be contacted at 312-440-4653 or 211 E. Chicago Avenue, Chicago, IL 60611.

The Dental Assisting National Board, Inc. (DANB) is the nationally recognized premier certification and credentialing agency for dental assistants. Since 1948, the DANB has played a vital role in the oral healthcare community. Recognized by the American Dental Association (ADA) as the national credentialing agency for dental assistants and accredited by the National Commission for Certifying Agencies (NCCA), DANB provides a means of identifying qualified and competent dental assistants and by measuring and promoting excellence in oral healthcare delivery. Visit the Dental Assisting National Board, Inc. for more information.

National Board Dental Hygiene Examination (NBDHE)  
Commission on Dental Competency Assessments

The dental hygiene student is responsible for finding and scheduling ALL patients needed to meet the minimum requirements for graduation. For additional information see:

Dental Hygiene Licensure by Examination  
Indiana Professional Licensing Agency

The IUFW Dental Technology program is accredited by the Commission on Dental Accreditation. The Commission is a specialized accrediting body recognized by the Council on Postsecondary Accreditation and by the United States

Department of Education. The Commission on Dental Accreditation can be contacted at 312-440-4653 or 211 East Chicago Avenue, Chicago, IL 60611.

### **School of Dentistry Policies and Procedures**

- Clinical Requirements
- Technical Requirements
- Immunizations
- Grade Appeals
- Health Insurance

### **Clinical Requirements**

A student who has not met clinical requirements by the first day of classes will be dropped from clinical course(s) and any co-requisite course(s). Being removed from the course(s) may result in forfeit of financial aid. Neither class or clinical space will be held for any student dropped by the deadline, therefore, if the class is full you will not be able to register.

### **Technical Standards for Admission and Retention of Students**

1. Observation: The applicant/student must be able to participate actively in all demonstrations, laboratory exercises, and clinical experiences in the professional program component of the degree and to assess and comprehend the condition of all persons assigned to him or her for examination, diagnosis and treatment. Such observation and information usually requires the functional use of visual, auditory, and somatic sensations.

2. Communication: The applicant/student must be able to communicate effectively and sensitively with persons in order to elicit information, describe changes in mood, activity and posture, assess nonverbal communications, and be able to effectively and efficiently receive from and transmit information to persons, fellow

students, faculty and staff, and all members of the health care team. Communication skills include listening, speaking, reading and writing, as well as the observation skills described above.

3. Motor: The applicant/student must have sufficient motor function to elicit information from persons by appropriate diagnostic or therapeutic maneuvers; be able to perform basic tests; possess all skills necessary to carry out diagnostic or therapeutic procedures; be able to interpret appropriate examinations and procedures, and be able to execute motor movements reasonably required to provide general care and emergency treatment to persons.
4. Intellectual/Conceptual, Integrative, and Quantitative Abilities: The applicant/student must be able to measure, calculate, reason, analyze, evaluate, and synthesize. Problem solving, the critical skill demanded of allied health practitioners, requires all of these intellectual abilities. In addition, the applicant/student must be able to comprehend three-dimensional relationships and understand the spatial relationships of structures. The applicant/student must have the capacity to perform these problem solving skills in a timely fashion.
5. Behavioral and Social Attributes: The applicant/ student must possess the emotional health required for full utilization of his or her intellectual abilities; the exercise of good judgment; the prompt completion of all responsibilities attendant to care of persons; and the development of mature, sensitive and effective relationships with persons and others. Applicants must also be able to

tolerate taxing workloads, function effectively under stress, adapt to changing environments, display flexibility, and learn to function in the face of uncertainties inherent in clinical problems of many persons. Compassion, integrity, concern for others, commitment and motivation are personal qualities which each applicant/student should possess.

**DISABILITIES STATEMENT:** If you have a disability and need assistance, special arrangements can be made to accommodate most needs. Contact the Director of the Disability Access Center (Walb, room 113, telephone number 481-6657), as soon as possible to work out the details. For more information, please visit the web site for SSD at <http://www.pfw.edu/ssd/>

### **Immunization Compliance**

The following immunizations are required for students admitted to the Division of Allied Dental Education programs. It is recommended students begin the immunization process prior to admission to the program, as some immunizations require six (6) months to complete the series.

Measles, Mumps, and Rubella (series of 2) - e.g. MMR

Tetanus and Diphtheria (within last 10 years - must not lapse during program) - e.g. Td, Tdap

Varicella (Chicken Pox, series of 2) - e.g. VAR OR documented History of Disease

Hepatitis B (series of 3) - e.g. HepB, HepA-HepB Polio (series of 3) - e.g. OPV, IPV

Positive titer documentation (showing immunity) may be accepted in place of immunization documentation.

### **TB TEST & INFLUENZA VACCINE**

TB test is administered upon entry to the program. TB Test and Influenza Vaccine will be strongly encouraged for all students. More information regarding this requirement will be provided to students enrolled in the program.

### **Grade Appeals**

Students who have evidence or believe evidence exists that a course grade, similar evaluation, or student progression decision was made as a result of prejudice, caprice, or other improper conditions, such as mechanical error, may appeal that action. Complaints concerning actions or decisions of faculty or staff of the University which are claimed to violate rights established in the Indiana University Code of Student Rights, Responsibilities and Conduct will be handled according to procedures outlined in the code. Students should confer with the Dean of Students or the Associate Vice Chancellor for Academic Affairs if they have any questions.

In the case of a grade appeal, the student should proceed as follows:

1. Faculty Member: An attempt should be made by the student to reconcile the concern or conflict with the faculty member. The student should schedule an appointment with the course faculty to discuss the grade or action and try to resolve the issue. If meeting with the faculty member does not resolve the issue, the student may seek informal mediation from the program director.
2. Program Director: The student must submit the allegation that an improper decision or action was made and specify the remedy sought, in writing,

using the Student Appeals Procedure Checklist. A meeting with the student will be held to discuss the appeal. After meeting with the student, the program director will send a written recommendation with supporting documentation concerning the appeal to the student. If the appeal is not resolved, the student may proceed to Step 3.

3. School: The student shall submit the appeal in writing to the Associate Dean of the Division of Allied Dental Education.

### **Health Insurance**

Students enrolled in an allied dental program may be exposed to possible injuries and communicable diseases. All students are required to carry their own health insurance. Costs associated with any incident on campus or at clinical sites shall remain the responsibility of the student.

### **Degree Programs**

- Certified Dental Assisting
- Dental Hygiene
- Dental Laboratory Technology

### **Certificate in Dental Assisting Overview**

The program starts each year in the fall and ends with the completion of the following summer I semester. Upon successful completion of program requirements, graduates of the IU Fort Wayne Certified Dental Assisting Program receive a Certificate in Dental Assisting from Indiana University; Certified Dental Assistant (CDA) certification from the Dental Assisting National Board; Indiana State Dental Radiographer Licensure; and Certificates of Completion in Coronal Polishing and Caries Prevention. Prior to graduation, students are required to earn the Dental Assisting National Board (DANB) Certified

Dental Assistant (CDA) certification by passing three DANB examinations: Infection Control; Radiation Health and Safety; and General Chairside Assisting. After successfully earning the CDA certification, graduates are eligible to apply for and receive an Indiana State Dental Radiographer License.

### **Dental Assisting Certificate Curriculum**

#### **Year One (40 units)**

##### **Fall 1st Year**

[[[TABLE]]]

##### **Spring 1st Year**

[[[TABLE]]]

##### **Summer Term**

[[[TABLE]]]

### **Student Learning Outcomes**

#### **PROGRAM MISSION STATEMENT**

The mission of the Indiana University Fort Wayne Certified Dental Assisting Program is to offer an exceptional and nationally renowned educational program; prepare students to be highly skilled oral healthcare professionals; and maintain and cultivate a diverse, intellectual and working partnership with the community. The program is committed to excellence in the theory and practice of dental assisting and in the development of competent, socially sensitive, and ethically responsible professionals.

#### **PROGRAM GOALS**

1. Develop and incorporate skills in critical thinking, interpretation, reasoning, questioning, and decision-making.
2. Apply principles from basic sciences, social sciences, clinical practice, and dental

technology to deliver comprehensive care to their patients.3. Practice and apply safe delivery of patient care.4. Develop competence in assessing, evaluating, planning, and treating oral conditions and diseases.5. Develop effective verbal and nonverbal interpersonal communication skills.6. Interpret, evaluate, and synthesize current scientific research and apply evidence-based reasoning skills throughout the program curriculum.7. Recognize good health practices and promote these ideals to others.8. Promote ethical behavior required in the practice of dentistry.9. Assume a leadership and collaborative role in the advancement of the dental assisting profession through community activities and affiliations with professional organizations.10. Recognize the need for life-long learning and professional development.

### **Dental Hygiene**

The four-year program leads to a Bachelor of Science in Dental Hygiene with two specialty concentration options:

- 1) Community Dental Hygiene and
- 2) Health Care Administration

IUFW's Dental Hygiene Program prepares students for the challenging and rapidly expanding profession. Demand for dental hygienists is expected to continue in response to an increasing awareness of dental health. The limited class size of 24 students per year offers an opportunity for individualized instruction.

Dental hygienists are licensed professionals who serve as the prevention specialists of the dental team. They require a variety of interpersonal and clinical skills to meet oral health needs of many different patients each day. They enjoy flexible job scheduling, including full- and part-time employment. Opportunities exist in dental

offices, public health agencies, research, industry, hospital dentistry, and dental education.

### **Bachelor of Science in Dental Hygiene Curriculum**

#### **Dental Hygiene - Community Dental Hygiene**

##### **Fall Term**

[[[TABLE]]]

[[[TABLE]]]

##### **Year Two -(30 Units)**

##### **Fall Term**

[[[TABLE]]]

##### **Spring Term**

[[[TABLE]]]

##### **Year Three - (30 Units)**

##### **Fall Term**

[[[TABLE]]]

##### **Spring Term**

[[[TABLE]]]

##### **Year Four - (27 Units)**

##### **Fall Term**

[[[TABLE]]]

##### **Spring Term**

[[[TABLE]]]

#### **Dental Hygiene - Health Care Administration**

##### **Fall Term**

[[[TABLE]]]

[[[TABLE]]]

##### **Year Two (30 Units)**

##### **Fall Term**

[[[TABLE]]]



**Spring Term**

[[[TABLE]]]

**Year Three - (30 Units)**

**Fall Term**

[[[TABLE]]]

**Spring Term**

[[[TABLE]]]

**Year Four - (27 Units)**

**Fall Term**

[[[TABLE]]]

**Spring Term**

[[[TABLE]]]

**Student Learning Outcomes**

Goals and Objectives—Students will:

- apply principles from basic sciences, clinical, and social sciences to the delivery of dental hygiene services.
- develop competence in assessing, planning, treating, and evaluating oral conditions and diseases.
- develop effective communication skills. Students will promote good health practices to others.
- design, implement, and evaluate community dental health programs.
- develop skills in critical thinking, reasoning, questioning, and decision making.
- interpret and evaluate current research findings.
- promote the dental hygiene profession through service learning activities, affiliations with professional organizations, and partnerships with the community.

**Dental Technology BSDT Pre-Dental Curriculum**

The four-year program leads to a Bachelor of Science in Dental Technology with two specialty concentration options: 1) Pre-Dentistry and 2) Health Care Administration

**Dental Technology BSDT Health Care Administration**

[[[TABLE]]]

[[[TABLE]]]

[[[TABLE]]]

[[[TABLE]]]

[[[TABLE]]]

[[[TABLE]]]

[[[TABLE]]]

[[[TABLE]]]

**Dental Technology BSDT Pre-Dentistry**

[[[TABLE]]]

[[[TABLE]]]

[[[TABLE]]]

[[[TABLE]]]

[[[TABLE]]]

[[[TABLE]]]

[[[TABLE]]]

[[[TABLE]]]

[[[TABLE]]]

**Student Learning Outcomes**

Students of the Dental Technology program will:

1. demonstrate the breadth of knowledge in the principals of

restorative dental prosthesis and dental sciences.

2. demonstrate proficiency in the technical competency skills necessary to perform at or beyond an entry-level position in a dental laboratory.
3. comprehend and apply dental terminology, and technical advancements in the dental technology profession.
4. demonstrate ethical work habits and behavior patterns required for success and advancement in the dental profession.
5. demonstrate the need for continued learning and professional development locally, nationally and internationally in the field of dental laboratory technology.
6. demonstrate written, oral and multimedia skills necessary to communicate effectively in multicultural/diverse settings.
7. demonstrate skills in critical thinking, interpretation, reasoning, questioning, and decision making in the dental profession.
8. demonstrate proficiency in interpreting and evaluating current dental prosthetic research and apply that knowledge to demonstrate dental laboratory skills necessary for life-long learning.
9. promote the dental technology profession through service-learning activities, affiliations with professional organizations, and partnerships with dental companies and the community.

### **Courses**

These are courses for the IUFW Allied Dental Education programs. The number of credit hours is indicated in parentheses following the course title.

### **Dental Auxiliary Education**

#### **DAST-A 122 INTRODUCTION TO DENTISTRY (1 cr.)**

An overview of the specialties of dentistry with specific lectures on cavity classification and nomenclature, instrument nomenclature, principles of cavity preparation, the space maintenance concept, management of the child patient, use of the rubber dam in direct and indirect pulp therapy.

#### **DAE-E 351 Advanced Dental Materials Technology for Auxiliary (1-4 cr.)**

Lecture and laboratory course designed to teach additional concepts of dental materials and their use in intra-oral techniques. Included in instruction in DAU principles.

### **Dental Assisting Certificate**

#### **DAST-A 162 Written and Oral Communication (1-2 cr.)**

Instruction and practice in gathering and organizing material for written and oral presentations to include individual and group projects in communication specifically in dental contexts.

#### **DAST-A 211 Oral, Pathology, Physiology, Anatomy (1-2 cr.)**

A211 is an overview of the structures, functions, and selected diseases of the human body, including basic cells, tissues, organs, and organ systems.

#### **DAST-A 212 Dental Therapeutics and Medical Emergencies (2-3 cr.)**

This course will present the pharmacology of medications that are commonly used by the physician and dentist and the diseases and indications for which these drugs are prescribed. Also, the class will review the systemic diseases and adverse reactions to dental treatment that can result in a medical emergency in the dental office and the armamentarium, medications, and procedures for treating these emergencies.

#### **DAST-A 221 Microbiology and Asepsis Technique (1-3 cr.)**

A study of microbial

types, oral microbiology, bloodborne diseases and infection control including procedures on instrument cleaning and sterilization, surface disinfection, use of protective barriers, waste management and hazardous materials management.

**DAST-A 231 Dental Materials I (2-4 cr.)**

Lecture and laboratory course designed to require the student to utilize critical thinking and problem solving skills while incorporating mechanical, physical and chemical properties of dental materials in the clinical and laboratory setting. The role of the assistant in selection, manipulation and biological considerations of dental materials is stressed.

**DAST-A 232 Dental Materials Lecture II (1-3 cr.)**

Lecture and laboratory courses designed to require student to utilize critical thinking and problem solving skills while incorporating mechanical, physical, and chemical properties of dental materials in the clinical and laboratory setting. The role of the assistant in selection, manipulation, and biological considerations of dental materials is stressed.

**DAST-A 241 Preventive Dentistry and Nutrition (2-3 cr.)** Etiology and prevention of oral diseases. The role of the dental assistant in the different procedures comprising an office preventive program. The effects of major nutrients on physiologic body processes; applied nutrition in dental caries and periodontal disease. Clinical and laboratory experiences.

**DAST-A 242 Introduction to Advanced Dental Practice (1-3 cr.)** The course will provide the student with an overview of the various dental specialties and the special instruments utilized by them. The role of the specialty dental assistant will be addressed along with performance evaluations of skills that are allowed for

dental assistants in the Indiana State Dental Practice Act.

**DAST-A 271 Clinical Science I (4-6 cr.)**

A core course in dental nomenclature; historical developments in dentistry; role of assistant as member of the dental health team; dental specialties; charting the mouth; identification and utilization of instruments and equipment; principles of dental procedures and instrument transfer, isolation techniques, and asepsis procedures.

**DAST-A 272 Clinical Science II (3-6 cr.)**

Clinical chairside experience, including an extramural assignment; allows for refining of student skills. A seminar provides students opportunities to share experiences.

**DAST-A 273 Advanced Clinical Practice (4 cr.)**

This course provides continued performance on clinical practice experiences with patients in extramural dental offices. The students will utilize critical thinking skills and evidence-based decision making as they perform clinical treatment with their patients.

**DAST-A 282 Practice Management, Ethics and Jurisprudence (2-3 cr.)** A course designed to emphasize the role of the dental assistant in the management of a dental office through reception procedures, appointment control, record keeping, purchasing, third party reimbursement, financial systems, telephone techniques, and inventory control. Also the legal and ethical aspects of dentistry are discussed as well as interviewing techniques and resumes.

**DAST-A 303 Radiology Clinic I (2-3 cr.)**

The principles of radiation production, theories and techniques of radiographic imaging, film processing and mounting, radiation safety and radiographic

interpretation are studied in this didactic and preclinical course.

**DAST-A 305 Radiology Clinic II (1-3 cr.)**

Clinical application of intra-oral and extra-oral radiographs. A continuation of the students' experience in intraoral and extraoral radiographic techniques on patients.

**Bachelor of Science in Dental Hygiene**

**DHYG-D 401 Clinical Supervision 1**

**(3 cr.)** Supervisory experience in clinics and laboratories involved in teaching students enrolled in Dental Hygiene curriculum; problems incident to patient-student and instructor-student relationships.

**DHYG-D 402 Practicum in Dental**

**Sciences Education (3 cr.)** Experience in teaching in the Department of Dental Education under the direction of a supervising instructor. Students will learn strategies in curriculum development, effective evaluation methods, teaching-learning styles, student-faculty relationships, and problem-solving strategies in a didactic setting.

**DHYG-H 204 Periodontics (1-2 cr.)**

This course introduces students to the interpretation of tissue changes, the role dental hygienists process of care. An emphasis will be placed on the structures of the periodontium, etiology and manifestations of periodontal diseases.

**DHYG-H 205 Medical and Dental**

**Emergencies (1-2 cr.)** A study in emergency situations in the dental office, including predisposing factors and drugs, and treatment to include the support of the cardiopulmonary system.

**DHYG-H 211 Head & Neck Anatomy**

**(1-3 cr.)** A detailed study of the anatomy of the head and neck. Some attention is given to oral embryology and the growth of tooth structure.

**DHYG-H 214 Oral Anatomy Histology & Embryology (2-4 cr.)**

A study of the morphology, structure, function, and histology and embryology of human and surrounding tissues, including osteology of the maxilla and mandible and nerve and vascular supply of teeth and muscles of mastication.

**DHYG-H 215 Pharmacology and Therapeutics: First Year (1-3 cr.)**

A study to understand how drugs work, the appropriate indications and prescribing of drugs, when pre-medication is indicated, contraindications, and adverse reactions of drugs.

**DHYG-H 216 Chemistry and Nutrition:**

**First Year (2-3 cr.)** Introduction to basic knowledge of biochemistry and physiology of nutrition and its relation to good oral health. Critical thinking skills will be practiced through the use of inquiry teaching methods and case studies.

**DHYG-H 217 Preventive Dentistry:**

**Second Year (1-3 cr.)** Introduction to the philosophy, and need, for preventative dentistry. Emphasis is on concepts and skills of self-motivation, knowledge of dental diseases and abnormalities, application of the principles of fluoridation, nutrition, patient motivation, home care, and other preventative topics as they relate to the patient and community.

**DHYG-H 218 Fundamentals of Dental**

**Hygiene (3-6 cr.)** An introduction to the dental and dental hygiene professions including the basic didactic and laboratory/clinic practice for the performance of dental hygiene services.

**DHYG-H 219 Clinical Practice I (3-5 cr.)**

Performance of dental services in various clinical settings. Included is didactic instruction and clinical application of dental

hygiene procedures for providing patient care and an introduction to oral diagnosis.

**DHYG-H 221 Clinical Dental Hygiene Procedures (1-3 cr.)** A continuation of DHYG-H 218, this course emphasizes individualizing patient treatment throughout the entire dental hygiene process of care, with a focus on meeting the dental needs of medically compromised and special needs patients including those with physical, mental, and systemic disorders.

**DHYG-H 240 Introduction to Dental Ethics (1-2 cr.)** This course provides background in ethical issues that impact dental healthcare providers and their patients. Emphasis will be on developing critical thinking skills and evidence-based decision making. Case studies providing examples of legal and ethical issues relevant to dental patient care will be explored.

**DHYG-H 242 Introduction to Dentistry (1-3 cr.)** An overview of the field of dentistry with emphasis on the specialties in dentistry, an introduction to common dental procedures with information a hygienist needs in patient education, as well as issues related to access to dental care and the dental workforce.

**DHYG-H 250 Local Anesthesia and Pain (1-2 cr.)** This course addresses coverage management for conscious dental clients. The indications, contraindications, and pharmacology of topical anesthesia, local anesthesia, and nitrous oxide and oxygen sedation used in dentistry will be discussed. Local anesthesia techniques and the administration of nitrous oxygen sedation will be studied.

**DHYG-H 301 Clinical Practice II (3-5 cr.)** Continued performance of dental hygiene services in various clinical settings. Included is didactic instruction and clinical

application of dental hygiene services for providing patient care.

**DHYG-H 302 Clinical Practice III (3-5 cr.)** H302 Clinical Practice III is a combination of clinical experiences, professional organization activities and community health education. The didactic information obtained through the curriculum is designed to complement student's advanced clinical work and experiences. These experiences will include evaluating patient's nutritional status and identifying treatment modifications necessary for patients with special needs.

**DHYG-H 303 Radiology (1-3 cr.)** This course teaches the principles and techniques associated with production of dental radiographs, radiation biology and safety, and the use of dental radiographic equipment.

**DHYG-H 304 Oral Pathology: Second Year (1-3 cr.)** Oral pathology is the study of diseases of the oral cavity. The dental hygienist is in a unique position to observe, investigate and assist with the diagnosis of a number of localized and systemic conditions.

**DHYG-H 305 Radiology Clinic (1-3 cr.)** Clinical application of intra-oral and extra-oral radiographs.

**DHYG-H 306 Radiology Clinic II (1 cr.)** Continuation of DHYG-H305 - clinical application of intra-oral and extra-oral radiographs.

**DHYG-H 308 Dental Materials (1-3 cr.)** An examination of the physical and chemical properties of current dental materials and how those properties affect the usage and clinical behavior of the materials. The study includes material selection, characteristics, manipulation, and care of the materials used in dentistry. The course includes both lecture and laboratory components.

**DHYG-H 309 Practice of Community Dental Hygiene - 2nd Year (1-3 cr.)** A supervised field experience in various community settings, including dental health instruction and treatment in schools, and dental health education to community organizations. This course is designed to cover didactic information in the first half of the course to prepare students for the National Board Examination. During this time students are orientated to community fieldwork experiences, with the majority of service hours completed in the latter half of this course.

**DHYG-H 320 Practice Management, Ethics and Jurisprudence (1-2 cr.)** The study of the organization, administration and prudent operation of professional and financial resources for a successful dental practice in a community.

**DHYG-H 321 Periodontics (1-2 cr.)** A study of periodontal disease including the anatomy, classification, etiology, treatment, and relationship to systemic condition.

**DHYG-H 344 Senior Hygiene Seminar (1-3 cr.)** Ethics, jurisprudence, and practice management concepts including a study of state practice acts, dental hygiene employment opportunities, recall systems, and current trends in the dental hygiene profession.

**DHYG-H 347 Community Dental Health (2-5 cr.)** A study of public health principles as they relate to dentistry. The students will be introduced to those aspects of public health which enable them to plan, administer and evaluate a dental health program.

**DHYG-H 400 Evidence-Based Decision Making (3 cr.)** Evidence-based decision making (EBDM) based on scientific evidence, clinical skill and judgment, and individual patient case studies. This approach to evidence-based decision

making in oral healthcare will include judicious integration of systematic assessments of scientific evidence. Foundational knowledge to implement future clinical strategies will be discussed.

**DHYG-H 403 Advanced Community Dental Hygiene (3-4 cr.)** Public health principles including care delivery system and preventive public health care at the community level.

**DHYG-H 405 Dental Healthcare Research (3 cr.)** Review of current literature related to periodontics, oral pathology, preventive dentistry and the current practices of dental hygiene.

**DHYG-H 406 Educational Methodology in Health Sciences (1-3 cr.)** The purpose of this course is to assist potential educators in the health sciences to understand current theories, concepts and methodologies in professional health science education. Students will learn to apply effective educational strategies to match learners' needs in didactic, laboratory and clinical settings. This course will use a variety of delivery systems including an on-line component.

**DHYG-H 408 Practicum in Community Health (3-4 cr.)** Structured practical experience in planning, supervising, coordinating and evaluating instruction in an educational setting and/or assessing, planning, implementation, and evaluation of public health programs.

**DHYG-H 420 Advanced Clinical Procedures (4-5 cr.)** Clinical Practice 4 is a course designed for instruction and experience in performing dental hygiene services.

### **Bachelor of Science Degree in Dental Technology**

**DLTP-D 300 Specialty in Orthodontic Prosthesis (4-8 cr.)** This course will give

students advanced knowledge in the fabrication of orthodontic prosthesis. It will allow students to test and develop their problem solving skills by providing them with theoretical information and challenge them to convert it into practical application through construction of orthodontic appliances.

**DLTP-D 111 History Ethics Organization (1 cr.)** History and background of dental laboratory technology, including dental practice acts, work authorization, dental ethics as applicable to dental auxiliaries.

**DLTP-D 112 Dental Anatomy (4 cr.)** A study of individual tooth morphology and associated oral structures, their relationship, alignment, and function.

**DLTP-D 113 Basic Physics, Chemistry and Dental Materials (5 cr.)** The chemical and physical properties and requirements of restorative and prosthetic materials will be taught. Manipulative procedures are performed in the laboratory.

**DLTP-D 114 Occlusion (3 cr.)** The interdigitation of teeth and their relation to function, phonetics, and esthetics will be introduced. Waxing techniques to obtain these desired results will be utilized in the laboratory.

**DLTP-D 125 Crown and Bridge Prosthodontics I (3 cr.)** An introduction to the types and uses of fixed restorations and techniques of fabrication. The theories and concepts for the use of different types of restorations will be included.

**DLTP-D 126 Orthodontic Pedodontic Appliances I (3 cr.)** An introduction to the basic laboratory skills pertinent to fabrication of orthodontic and pedodontic appliances. Special emphasis will be placed on various wire bending techniques and designs. Students will also be

introduced to the pouring and trimming of diagnostic casts.

**DLTP-D 127 Complete Denture Prosthodontics I (4 cr.)** An introduction to the setup and arrangement of artificial teeth. Waxing, investing, processing, and finishing procedures will also be taught. The basics of denture repair will be introduced.

**DLTP-D 128 Partial Denture Prosthodontics I (3 cr.)** An introduction to the theories and procedures of partial framework fabrication. The procedures of design, duplicating, waxing, investing, casting, and finishing will be introduced.

**DLTP-D 129 Dental Ceramics I (3 cr.)** An introduction to the types and uses of fixed restorations and techniques of fabrication of porcelain to metal restorations.

**DLTP-D 215 Crown and Bridge Prosthodontics II (4 cr.)** Fixed procedures are continued with emphasis on multiple unit castings. Theory and techniques to be included are pontic design, acrylic veneer design, and soldering.

**DLTP-D 216 Ortho-Pedo Appliance II (3 cr.)** The skills introduced in the basic course will be amplified. More intricate wire bending exercises will be used. Acrylic placement, basic soldering, and welding techniques will be introduced.

**DLTP-D 217 Complete Denture Prosth II (3 cr.)** Set up and arrangement procedures using various degrees of posterior teeth will be covered. The characterization of dentures using tooth arrangement, waxing and finishing procedures will be introduced. Students will also be taught refitting techniques such as relines, rebases and repairs.

**DLTP-D 218 Partial Denture Prosthodontics II (3 cr.)** The fabrication

of various designed frameworks will be utilized. The arrangement and processing of artificial teeth and the repairing of frameworks will be introduced.

**DLTP-D 219 Dental Ceramics II (4 cr.)**

Porcelain to metal procedures are continued with emphasis on multiple unit restorations. An introduction to soldering techniques and porcelain jacket crowns will be included.

**DLTP-D 320 Dental Implants (3 cr.)**

Dental Implant Concepts and Procedures for Fixed and Removable Prostheses will be taught. Computer-aided design of dental prosthetic restorations will be emphasized.

**DLTP-D 321 Dental Laboratory Business Procedures (3 cr.)** Practical laboratory management procedures and theories will be taught.

**DLTP-D 400 Advance Dental Science in Dental Laboratory Technology (3 cr.)**

This course will highlight competencies and achievements learned during preceding laboratory practices. Students will be required to construct an e-portfolio along with a project portfolio. This portfolio will include projects, journal article critique of new dental technology practices and procedures, reflection papers, externship journals, and a dental research project.

**DLTP-D 401 Specialty in Fixed**

**Prosthodontics (4-8 cr.)** The course will give students advanced knowledge in the fabrication of fixed prosthesis. It will allow students to test and develop their problem solving skills by providing them with theoretical information and challenge them to convert it into practical application through construction of fixed prosthesis. Computer-aided design of dental prosthetic restorations will be emphasized.

**DLTP-D 402 Specialty in Removable Prosthodontics (4-8 cr.)** This course will

give students advanced knowledge in the fabrication of removable prosthesis. It will allow students to test and develop their problem solving skills by providing them with theoretical information and challenge them to convert it into practical application through construction of partial and complete dentures. Computer-aided design of dental prosthetic restorations will be emphasized.

**DLTP-D 403 Specialty in Orthodontic**

**Prosthesis (4-8 cr.)** This course will give students advanced knowledge in the fabrication of orthodontic prosthesis. It will allow students to test and develop their problem solving skills by providing them with theoretical information and challenge them to convert it into practical application through construction of orthodontic appliances.

**DLTP-D 405 Practical Laboratory**

**Experience (4-6 cr.)** A practicum in dental laboratory procedures in one of the five specialty areas. This practicum may be given on campus or at an extramural site.