DUAL DEGREE (BSDH/MDT) COURSE DESCRIPTIONS

BIOC 2011 — Biochemistry for the Agricultural and Health Sciences
Survey of organic chemistry/biochemistry outlining structure/metabolism of biomolecules, metabolic regulation, and principles of molecular biology.

DH 2111 - Dental Anatomy
All deciduous/permanent teeth, including tooth form, function, and relationship to oral health. Calcification, eruption, exfoliation patterns. Ideal static occlusion, dental terminology, tooth annotation systems. Lab includes identification/annotation of teeth.

DH 2212 - Communication for Oral Health Providers
The study of effective communication strategies within health care settings with emphasis on the oral health provider-patient relationships. Application of health literacy concepts and behavior change theory as components of evidence-based decision making in in a variety of practice settings.

DH 2121 - The Dental Hygiene Care Process: Clinical Application I
Dental hygiene care process, assessment principles related to medical and oral health status, dental hygiene clinical procedures, and development of instrumentation skills.

DH 2132 - Head and Neck Anatomy
Anatomical structures of head/neck as they relate to practice of dental hygiene.

DH 2215 - Oral Histology and Embryology

DH 2221 - Periodontology

DH 2222 - The Dental Hygiene Care Process: Clinical Application II

DH 2231 - Cariology and Applied Nutrition in Dental Hygiene Care

DH 3100 - Dental Professional Development I
Introductory course to develop skills essential to management of a dental practice, including basic accounting principles, strategies and business planning, quality improvement, patient management, scopes of practice, and lifelong learning through continuing education.
DH 3120 - General and Oral Pathology

DH 3121 - Local Anesthesia and Pain Management

DH 3123 - The Dental Hygiene Care Process: Clinical Application III
Dental hygiene treatment planning, alternative instruments, and advanced skills related to implementation of dental hygiene care. Clinical experience.

DH 3126 - Oral and Maxillofacial Radiology: Clinic I
Radiographic Technique. Exposing radiographs on skulls, interpretation, panoramic/extraoral technique, quality assurance procedures.

DH 3133 - Pharmacology
Principles of pharmacology, physical/chemical properties of drugs, modes of administration, therapeutic/adverse effects, drug actions/interactions.

DH 3134 - Pediatric Dentistry
Knowledge, skills, and attitudes required for providing dental hygiene care for pediatric patients.

DH 3151 - Oral and Maxillofacial Radiology
General principles of radiology, radiation physics, dosimetry, biology, radiation protection, regulations, recent concepts of imaging.

DH 3211 - Biomaterials and Principles of Restorative Techniques I
Principles of biomaterials and restorative techniques; lecture and pre-clinic experiences.

DH 3224W - The Dental Hygiene Care Process: Clinical Application IV
Knowledge, skills, and attitudes required for providing dental hygiene care for the medically compromised patient, gerodontic patient, and patient with a disability. **Fulfills writing intensive requirement.**

DH 3227 - Oral and Maxillofacial Radiology: Clinic II
Exposing patient radiographs, interpretation, panoramic/extraoral technique, and quality assurance procedures.

DH 3228 - Ethics and Jurisprudence for the Dental Hygienist
Ethical decision making, jurisprudence.

DH 3234 - Oral and Maxillofacial Radiology: Theory, Principles and Radiographic Analysis

**DH 3238 - Dental Public Health and Academic Service Learning**

**DH 4100 - Dental Professional Development II**
Building on the content in DH 3100, students will continue to develop skills essential to effective practice management including team dynamic, conflict resolution, regulatory compliance, collaborative practice, and strategies for a successful career. This course promotes mutual trust and respect in all interpersonal interactions, with an emphasis on the roles of a collaborative dental team.

**DH 4125W - Dental Hygiene Care Process V: Social Justice and Oral Health Care Delivery (DSJ, WI)**
Social justice with regard to health/oral health care in the United States. How race, class, and gender have impacted how health resources specific to dental health care are distributed and how social conditions impact health/oral health. Dental hygiene treatment to diverse patient populations in a variety of community-based clinics. Health and oral health disparities in the United States. **Fulfills Diversity and Social Justice Liberal Education Theme Requirement.**

**DH 4128 - Oral and Maxillofacial Radiology: Clinic III**
Exposing patient radiographs, interpretation, panoramic/extraoral technique, quality assurance procedures.

**DH 4135W - Research Methods in Dental Hygiene (WI)**
Develop skills in the scientific method and critiquing scientific literature. Emphasis is placed on evidence based decision making, types of research and research design, problem identification and hypothesis development, analyzing individual components of journal articles in relation to research principles, and writing the literature review. **Fulfills writing intensive requirement.**

**DH 4136 - Periodontology III Lecture**

**DH 4139 - Dental Public Health and Academic Service Learning II**
Academic service-learning in various community health care settings. Assessment, planning, implementation, and evaluation of a community oral health program.

**DH 4211- Principles of Restorative Techniques II**
Restorative Techniques. Clinical experiences.
DH 4226 - Dental Hygiene Care Process: Clinical Application VI
Advanced dental hygiene care process in Comprehensive Care Clinics and Service Learning Outreach sites. Development and presentation of the Senior Capstone experience. The Capstone is a comprehensive oral case presentation and written case report based on a unique patient experience and treatment.

DH 4229 - Oral and Maxillofacial Radiology: Clinic IV
Exposing patient radiographs, interpretation, panoramic/extraoral technique, quality assurance procedures.

DH 4234 - Leadership and Professional Development
Dental hygienist as leader/manager in client care. Oral health care delivery, manpower, finance mechanisms, health insurance programs, professional associations, state practice acts, legislation. Ethical, political, and legal issues.

DH 4310 - Foundations of Interprofessional, Professionalism, Communication, and Collaboration
Professionalism, communication/collaboration across health professions. Online independent/group work followed by facilitated interprofessional small group discussion of case narratives.

DT 4460 - Essentials of Clinical Care I For the Dental Therapist
Students provide comprehensive care under direction of clinical faculty. May include periodontics, operative, pediatric care, and health promotion. Limited care may be given on rotations to oral surgery clinics.

DT 4960 - Essentials of Clinical Care II for Dental Therapists
Comprehensive clinical care of assigned patients that may include treatment encompassing periodontics, operative, prosthodontics and endodontics, health promotion disciplines.

DT 5000 - Dental Therapy Capstone Project
In-depth, independent, project-based research topic from interests in oral health. Intensive, active-learning initiative requiring significant effort in planning/implementation. Final written product/oral presentation mandatory, demands extensive systematic investigation/research.

DT 5130 - Preclinical Pediatric Dentistry

DT 5140 - Preventive Pediatric Dental Clinic
Oral health promotion of pediatric patients. Brushing techniques, fluoride application, dietary analysis/counseling. Students interact with parents of pediatric patients.

DT 5141 - Clinical Pediatric Dentistry III
Early childhood development, dental care for children.

DT 5162 - Principles of Exodontia and Minor Oral Surgery
Develop knowledge/skill for exodontia/minor oral surgery.

DT 5321 - Treatment Planning for the Dental Therapist
Formal lecture presentations regarding fundamentals of assessment/treatment planning of dental cases. Prepare student to understand University of Minnesota School of Dentistry protocol in development of optimal, alternative, emergency treatment plans.

DT 5360 - Outreach Experiences I
Experiences that reinforce principles of delivering dental health care/services to patients, including underserved patient populations, in contemporary off-site clinical settings.

**DT 5361 - Outreach Experiences II**
Experiences that reinforce principles of delivering dental health care/services to patients, including underserved patient populations, in contemporary off-site clinical settings.

**DT 5410 - Biomaterials Science I**
Application of scientific principles to selection/utilization of dental materials.

**DT 5429 - Introduction to Psychomotor Skill Development**
Virtual reality based training for psychomotor skills required in prosthodontic/operative courses. Eye-hand/mirror skills, ergonomics used while preparing teeth for restoration.

**DT 5430 - Oral Anatomy**
Morphological characteristics of human dentition, associated contiguous structures. Foundational knowledge applied to situations encountered in general dental clinical practice.

**DT 5431 - Oral Anatomy Laboratory**
Manual dexterity skills, anatomy of human dentition.

**DT 5432 - Operative Dentistry I**

**DT 5433 - Operative Dentistry I Pre-Clinic Laboratory**

**DT 5434 - Operative Dentistry II Lecture**
How to surgically manage more advanced caries lesions. Transition from pre-clinic lab to clinic setting.

**DT 5435 - Operative Dentistry II for the Dental Therapist, Lab**

**DT 5443 - Operative Clinic III**
How to place restorations. Students place single-tooth restorations on patients.

**DT 5460 - Essentials of Clinical Care I For the Dental Therapist**
Students provide comprehensive care under direction of clinical faculty. May include periodontics, operative, pediatric care, and health promotion. Limited care may be given on rotations to oral surgery clinics.

**DT 5471 - Prosthodontic Topics for Dental Therapy**
Lectures, lab projects of selected prosthodontic techniques to enable the dental therapist to provide/cement quality pre-fabricated metal or resin provisional crowns and other prosthodontic procedures in the scope of DT practice.