



# Dental Hygienist

Program No: 10-508-1

Associate Degree in Applied Science

Degree Completion Time: Five Terms

In general, an academic year consists of two terms; however, degree completion time may vary based on student scheduling needs and class availability.

2012-2013

Catalog No.	Class Title	Credit(s)									
<b>Required General Education Coursework</b>											
10806177	General Anatomy & Physiology	4.00									
10806186	Introduction to Biochemistry	3.00									
10806197	Microbiology	4.00									
10801195	Written Communications	3.00									
10801196	Oral/Interpersonal Communications	3.00									
10809195	Economics	3.00									
10809196	Introduction to Sociology	3.00									
10809199	Psychology of Human Relations	3.00									
	Elective	2.00									
	<b>Total</b>	<b>28.00</b>									
<b>Term 1 Summer</b>											
10508101	Dental Health Safety*	1.00									
	<b>Total</b>	<b>1.00</b>									
<b>Term 2 Fall</b>											
10508102	Oral Anatomy, Embry, Histology*	4.00									
10508103	Dental Radiography*	2.00									
10508105	Dental Hygiene Process 1^	4.00									
	<b>Total</b>	<b>10.00</b>									
<b>Term 3 Spring</b>											
10508106	Dental Hygiene Process 2^	4.00									
10508107	Dental Hygiene Ethics and Professionalism	1.00									
10508108	Periodontology	3.00									
10508109	Cariology	1.00									
10508110	Nutrition and Dental Health	2.00									
	<b>Total</b>	<b>11.00</b>									
<b>Term 4 Fall</b>											
10508111	General & Oral Pathology	3.00									
10508112	Dental Hygiene Process 3^	5.00									
10508113	Dental Materials*	2.00									
10508114	Dental Pharmacology	2.00									
10508116	Dental Pain Management	1.00									
	<b>Total</b>	<b>13.00</b>									
<b>Term 5 Spring</b>											
10508115	Community Dental Health	2.00									
10508117	Dental Hygiene Process 4*	4.00									
	<b>Total</b>	<b>6.00</b>									
	<b>Program Total</b>	<b>69.00</b>									
<p>*Offered at LTC ^Clinic portion of the course is offered at LTC</p> <p>Note: Catalog numbers assigned to "elective" classes are for administrative use only. Consult with program counselor regarding your elective selection.</p> <p>Program start dates vary; check with your counselor for details.</p> <p>Curriculum and program acceptance requirements are subject to change.</p> <p>All courses must be completed with a minimum grade of "C" or better. ("C-" does not meet the minimum grade requirement.)</p>											
<p><b>About Shared Programs</b> Waukesha County Technical College (WCTC) offers its Dental Hygienist program in cooperation with LTC. As a dental hygienist student, you'll:</p> <ul style="list-style-type: none"> <li>Attend live, interactive TV classes at LTC.</li> <li>Take general studies classes at LTC.</li> <li>Treat patients at the LTC dental clinic.</li> <li>Fulfill laboratory requirements at LTC.</li> </ul>											
<p><b>About the Career</b> Ensuring oral health requires regular dental visits. Dental hygienists are essential members of the dental healthcare team who provide therapeutic and preventative dental services in addition to providing dental health counseling. If you're detail-oriented, interested in health-related science, able to handle multiple tasks on a timeline, and eager to help and work with people, a career as a dental hygienist may be perfect for you.</p>											
<p><b>Careers</b> Dental Hygienists are employed by:</p> <ul style="list-style-type: none"> <li>Hospitals</li> <li>Private Businesses</li> <li>Private Dental Offices and Clinics</li> <li>Schools</li> <li>Public Health Departments</li> <li>Government Agencies</li> </ul>											
<p><b>Admissions Steps</b></p> <ul style="list-style-type: none"> <li>Application</li> <li>Entrance Assessment Scores</li> <li>Transcripts</li> <li>Background Check</li> <li>Program Advising Session</li> <li>Health/TB/Tetanus Form</li> <li>Dental Exam Form</li> <li>Clinical Observation Form</li> <li>CPR Health Care Provider</li> <li>Chemistry Requirement</li> <li>Biology Requirement</li> <li>Student Handbook Review</li> <li>Program Information Contract Completion</li> <li>General Education and Science Course Work Completed</li> <li>Functional Abilities Statement of Understanding Form</li> </ul>											
<p><b>Program Outcomes</b></p> <ul style="list-style-type: none"> <li>Ethics and Professionalism: Incorporate into dental hygiene practice professional laws, regulations, and policies established by the licensing state and regulatory agencies.</li> <li>Ethics and Professionalism: Model dental hygiene professional code of ethics in a rapidly changing environment.</li> <li>Ethics and Professionalism: Pursue lifelong professional growth and development through self-directed learning, participation in professional organizations, and continuing education.</li> </ul>			<ul style="list-style-type: none"> <li>Promoting Oral Health: Counsel clients/patients to reduce health risks.</li> <li>Promoting Oral Health: Provide community oral health services in a variety of settings.</li> <li>Patient/Client Care: Infection Control: Manage infection and hazard control.</li> <li>Patient/Client Care: Assessment: Assess data on all aspects of patient/client health using methods consistent with dental hygienist scope of practice and legal principles.</li> <li>Patient/Client Care: Planning: Formulate a comprehensive dental hygiene care plan in collaboration with the client and other health professionals.</li> <li>Patient/Client Care: Implementation: Provide preventive and therapeutic services that promote oral health according to the needs of the patient/client.</li> <li>Patient/Client Care: Evaluation: Evaluate the effectiveness of the implemented client/patient dental hygiene care plan and modify as needed.</li> <li>Patient/Client Care: Evaluation: Evaluate the effectiveness of the implemented clinical and educational services and modify as needed.</li> </ul>								
<p><b>Approximate Costs</b></p> <ul style="list-style-type: none"> <li>\$126 per credit (resident)</li> <li>\$182 per credit (out-of-state resident)</li> <li>Other fees vary by program (books, supplies, materials, tools, uniforms, health-related exams, etc.)</li> </ul>											
<p><b>Accreditation</b> The Dental Hygienist program is accredited by the American Dental Association Commission on Dental Accreditation. To become licensed to work in the state of Wisconsin, students need to pass the Dental Hygiene National Board Exam as well as the practical exam administered by the Central Regional Dental Testing Service (CRDTS).</p>											
<p><b>Special Note</b> Application of chemotherapeutics, monitoring of nitrous oxide and polishing of amalgams are not taught to clinical competency.</p> <p>Entrance into the program is through a petition process upon completion of all admission steps and successful completion of all general education and science classes.</p>											
<p><b>Functional Abilities</b> Functional abilities are the basic duties that a student must be able to perform with or without reasonable accommodations. At the postsecondary level, students must meet these requirements, and they cannot be modified.</p>											
<p><b>Entrance Assessment Scores</b></p> <table border="1"> <thead> <tr> <th>Accuplacer</th> <th>ACT</th> </tr> </thead> <tbody> <tr> <td>Arithmetic - 80</td> <td>Mathematics - 19</td> </tr> <tr> <td>Reading - 79</td> <td>Reading - 18</td> </tr> <tr> <td>Sentence Skills - 90</td> <td>English - 19</td> </tr> </tbody> </table>			Accuplacer	ACT	Arithmetic - 80	Mathematics - 19	Reading - 79	Reading - 18	Sentence Skills - 90	English - 19	
Accuplacer	ACT										
Arithmetic - 80	Mathematics - 19										
Reading - 79	Reading - 18										
Sentence Skills - 90	English - 19										
<p><b>NOTE:</b> Some courses may require higher scores than listed above.</p>											

## Transfer agreements are available with the following institutions:

Capella University  
Concordia University  
Franklin University  
Herzing University  
Lakeland College  
Ottawa University

Silver Lake College  
University of Phoenix  
Upper Iowa University  
UW-Green Bay  
UW-Oshkosh  
UW-Stout

IMPORTANT: For more information on these agreements, visit [gotoltc.edu/transfer](http://gotoltc.edu/transfer).

### **10508101 Dental Health Safety**

...prepares dental auxiliary learners to respond proactively to dental emergencies, control infection, prevent disease, adhere to OSHA Standards, and safely manage hazardous materials. Learners also take patient vital signs and collect patient medical/dental histories. CPR certification is a prerequisite; learners will be required to show proof of certification before beginning the course.

### **10508102 Oral Anatomy, Embryology, Histology**

...prepares Dental Hygienist learners to apply detailed knowledge about oral anatomy to planning, implementation, assessment, and evaluation of patient care. Learners identify distinguishing characteristics of normal and abnormal dental, head, and neck anatomy and its relationship to tooth development, eruption, and health.

### **10508103 Dental Radiography**

...prepares dental auxiliary learners to operate x-ray units and expose bitewing, periapical, extra oral, and occlusal radiographs. Emphasis is placed on protection against x-ray hazards. Learners also process, mount, and evaluate radiographs for diagnostic value. In this course learners demonstrate competency on a manikin. In addition, learners expose bitewing radiographs on a peer, role-play patient. Learners gain further experience in exposing radiographs on patients in the clinical portion of their program. This course also provides the background in radiographic theory required for learners to make informed decisions and adjustments.

### **10508105 Dental Hygiene Process 1**

...introduces Dental Hygiene learners to the basic technical/clinical skills required of practicing dental hygienists including use of basic dental equipment, examination of patients, and procedures within the dental unit. Under the direct supervision of an instructor, learners integrate hands-on skills with entry-level critical thinking and problem-solving skills. The course also reinforces the application of dental health safety skills.

### **10508106 Dental Hygiene Process 2**

...builds on and expands the technical/clinical skills dental hygienists/learner began developing in Dental Hygiene Process I. Under the direct supervision of an instructor, learners apply patient care assessment, planning, implementation, and evaluation skills to provide comprehensive care for calculus case type I and 2 patients and perio case type 0, I and II patients. Dental Hygiene Process II introduces the application of fluoride and desensitizing agents, whole mouth assessments, comprehensive periodontal examinations, application of sealants, and patient classification. Learners also begin performing removal of supragingival stain, dental plaque, calcified accretions, and deposits. In addition, they gain further experience in exposing radiographs on patients. The course also reinforces the application of Dental Health Safety skills.

### **10508107 Dental Hygiene Ethics and Professionalism**

...helps student dental hygienists develop and apply high professional and ethical standards. Students apply the laws that govern the practice of dental hygiene to their work with patients, other members of a dental team, and the community. Emphasis is placed on maintaining confidentiality and obtaining informed consent. Students enhance their ability to present a professional appearance.

### **10508108 Periodontology**

...prepares student dental hygienists to assess the periodontal health of patients, plan prevention and treatment of periodontal disease, and evaluate the effectiveness of periodontal treatment plans. Emphasis is placed on the recognition of the signs and causes of periodontal disease and on selection of treatment modalities that minimize risk and restore periodontal health.

### **10508109 Cariology**

...focuses on the characteristics and contributing factors of dental decay. Dental hygiene students help patients minimize caries risk by developing treatment plans, communicating methods to patients, and evaluating treatment results.

### **10508110 Nutrition and Dental Health**

...prepares student dental hygienists to counsel patients about diet and its impact on oral health. Students learn to distinguish between balanced and unbalanced diets and to construct diets that meet the needs of patients with compromised dental/oral health. Students also learn to counsel patients about the effect of eating disorders on dental health.

### **10508111 General and Oral Pathology**

...prepares the student dental hygienist to determine when to consult, treat, or refer clients with various diseases, infection, or physiological conditions. Students learn to recognize the signs, causes, and implications of common pathological conditions including inflammatory responses, immune disorders, genetic disorders, developmental disorders of tissues and cysts, oral tissue trauma, and neoplasm of the oral cavity.

### **10508112 Dental Hygiene Process 3**

...builds on and expands the technical/clinical skills dental hygienists/learner developed in Dental Hygiene Process II. In consultation with the instructor, learners apply independent problem-solving skills in the course of providing comprehensive care for calculus case type 1, 2, and 3 patients and perio case type 0, I, II, and III patients. Dental Hygiene Process III introduces root detoxification using hand and ultra-sonic instruments, manipulation of files, use of oral irrigators, selection of dental implant prophylaxis treatment options, and administration of chemotherapeutic agents. Learners also adapt care plans in order to accommodate patients with special needs.

### **10508113 Dental Materials**

...prepares dental auxiliary learners to handle and prepare dental materials such as liners, bases, cements, amalgam, resin restorative materials, gypsum products, and impression materials. They also learn to take alginate impressions on manikins and clean removable appliances.

### **10508114 Dental Pharmacology**

...prepares student dental hygienists to select safe and effective patient pre-medication, local anesthetic, chemo therapeutic, and anti-microbial agents within the scope of dental hygiene practice. Students will also learn to recognize potential pharmacological contraindications for specific patients and to take measures to avoid negative impact or alert other members of the dental team to possible negative impact.

### **10508115 Community Dental Health**

...prepares the dental hygienist student to play a proactive role in improving the dental health of community members of all ages. Students perform and interpret dental health research to determine community dental health needs. They also participate in the development, implementation, and evaluation of a community dental health program.

### **10508116 Dental Pain Management**

...prepares the student dental hygienist to work within the scope of dental hygiene practice to manage pain for dental patients. Students learn to prevent and manage common emergencies related to administration of local anesthesia, prepare the armamentarium, and administer local anesthesia. The course also addresses the recommendation of alternative pain control measures.

### **10508117 Dental Hygiene Process 4**

...builds on and expands the technical/clinical skills dental hygienists/learner developed in Dental Hygiene Process III. With feedback from the instructor, learners manage all aspects of cases in the course of providing comprehensive care for calculus case type 0,1,2, and 3 patients and for perio case type 0, I, II, and III patients. It emphasizes maximization of clinical efficiency and effectiveness. It prepares learner dental hygienists to demonstrate their clinical skills in a formal examination situation.

### **10801195 Written Communications**

...teaches the writing process, which includes prewriting, drafting, revising, and editing. Through a variety of writing assignments, the student will analyze audience and purpose, research and organize ideas, and format and design documents based on subject matter and content. Keyboarding skills are required for this course. It also develops critical reading and thinking skills through the analysis of a variety of written documents.  
**PREREQUISITE:** 10831103 Intro to College Wrtg or **CONDITION:** Written Comm Prepared Learner (Accuplacer Wrtg min score of 86 or Equivalent) and **COREQUISITE:** 10838105 Intro Rdg & Study Skills or **CONDITION:** Reading Accuplacer min score of 74 or equivalent

### **10809196 Sociology - Introduction to**

...introduces students to the basic concepts of sociology: culture, socialization, social stratification, multi-culturalism, and the five institutions, including family, government, economics, religion, and education. Other topics include demography, deviance, technology, environment, social issues, social change, social organization, and workplace issues.  
**COREQUISITE:** 10838105 Intro Reading and Study Skills or Accuplacer Reading score of 74 or equivalent

### **10801196 Oral/Interpersonal Communication**

...provides students with the skills to develop speaking, verbal and nonverbal communication, and listening skills through individual speeches, group activities, and other projects.  
**COREQUISITE:** 10838105 Intro Reading and Study Skills or **CONDITION:** Reading accuplacer minimum score of 74 or equivalent

### **10806177 General Anatomy and Physiology**

...examines basic concepts of human anatomy and physiology as they relate to health sciences. Using a body systems approach, the course emphasizes the interrelationships between structure and function at the gross and microscopic levels of organization of the entire human body. It is intended to prepare health care professionals who need to apply basic concepts of whole body anatomy and physiology to informed decision-making and professional communication with colleagues and patients.  
**PREREQUISITE:** 10806174 General Chemistry or 10806134 General Chemistry or High School Chemistry Equivalent

### **10806186 Introduction to Biochemistry**

...provides students with skills and knowledge of organic and biological chemistry necessary for application within Nursing and other Allied Health careers. Emphasis is placed on recognizing the structure, physical properties and chemical reactions of organic molecules, body fluids, and acids. Additional emphasis is placed on biological functions and their relationships to enzymes, proteins, lipids, carbohydrates and DNA.  
**PREREQUISITE:** 10806134 General Chemistry or 10806174 General Chemistry or High School Chemistry Equivalent

### **10806197 Microbiology**

...introduces the learner to examine microbial structure, metabolism, genetics, growth and relationship between humans and microorganisms. Addresses disease production, epidemiology, host defense mechanisms and the medical impact of microbes. Examines the role of microbes in the environment, industry, and biotechnology.  
**PREREQUISITE:** 10806195 Anat and Phys I, or 10806177 General Anat and Physiology

### **10809195 Economics**

...provides the participant with an overview of how a market-oriented economic system operates, and it surveys the factors which influence national economic policy. Basic concepts and analyses are illustrated by reference to a variety of contemporary problems and public policy issues. Concepts include scarcity, resources, alternative economic systems, growth, supply and demand, monetary and fiscal policy, inflation, unemployment and global economic issues.  
**COREQUISITE:** 10838105 Intro Reading and Study Skills or Accuplacer Reading score of 74 or equivalent

### **10809198 Psychology - Introduction to**

...introduces students to a survey of the multiple aspects of human behavior. It involves a survey of the theoretical foundations of human functioning in such areas as learning, motivation, emotions, personality, deviance and pathology, physiological factors, and social influences. It directs the student to an insightful understanding of the complexities of human relationships in personal, social, and vocational settings.  
**COREQUISITE:** 10838105 Intro Reading and Study Skills or Accuplacer Reading score of 74 or equivalent