

Dental Hygiene, A.A.S.

A key member of the professional dental team, the licensed dental hygienist is on the "front line" of patient care, responsible for providing educational, clinical and therapeutic services that promote total health through good oral health. The growing public awareness of the benefits of oral health, combined with the growth of corporate dental plans, has significantly increased the demand for dental care and has made dental hygiene one of the country's fastest-growing careers. The demand for dental hygienists is expected to grow 46 percent by 2010. Competitive salaries and flexible work schedules are added benefits. Students in JCCC's dental hygiene program prepare for careers as preventive dental professionals who have a choice of working in a variety of settings. Upon successful completion of licensure requirements and board examinations, graduates get jobs in school systems, nursing homes and dental supply firms, as well as private dental offices.

Fully accredited by the American Dental Association Commission on Dental Accreditation, this 83-credit-hour program requires four semesters and one summer session of full-time study. Successful completion leads to an associate of applied science degree. All dental hygiene students gain important practical experience working in JCCC's state-of-the-art clinical facility under the supervision of licensed dental hygienists and dentists.

Enrollment is limited. The deadline for fall semester applications is December 1st. Fall course transcripts are due January 15th. For an application, call the dental hygiene program at 913-469-3808 or download a copy by visiting Dental Hygiene Application Process.

This program requires a professional liability insurance fee. Students will be notified via their JCCC student e-mail account if they are required to pay a \$16 fee. The dollar amount for fees is subject to change.

(Major Code 223A; State CIP Code 51.0602)

- Dental Hygiene

Associate of Applied Science Degree

Before Beginning Clinical Courses

CHEM 122	Principles of Chemistry*	5
ENGL 121	Composition I*	3
BIOL 140	Human Anatomy	4
PSYC 130	Introduction to Psychology	3
BIOL 230	Microbiology*	3
BIOL 231	Microbiology Lab*	2

Note: CHEM 122 or BIOL 140 or BIOL 230/BIOL 231 and one of the other prerequisites must be completed by the end of the fall semester.

Note: Transcripts from the fall semester are due January 15. The application deadline is December 1.

First Semester

DHYG 121	Clinical Dental Hygiene I: Pre-Clinic*	5
DHYG 125	Developmental Dentistry*	2
DHYG 135	Dental Materials*	2
DHYG 138	Head and Neck Anatomy*	2
SOC 122	Introduction to Sociology	3
Total Hours		14

Second Semester

DHYG 140	Clinical Dental Hygiene II*	4
DHYG 142	Dental Radiology*	2
DHYG 146	Periodontics*	3
DHYG 148	Dental Health Education*	2
BIOL 225	Human Physiology* ()	4
Total Hours		15

Summer

BIOL 235	General Nutrition*	3
Humanities Elective ^		3

Mathematics Elective ^{^^}	3
Total Hours	9

[^] Humanities Elective (<http://catalog.jccc.edu/fall/degreecertificates/electives/humanities-aas>)

^{^^} Mathematics Elective (<http://catalog.jccc.edu/fall/degreecertificates/electives/sci-and-or-math-aas>)

Third Semester

DHYG 221	Clinical Dental Hygiene III*	6
DHYG 225	Pathology*	3
DHYG 230	Dental Therapeutics*	3
DHYG 240	Community Dental Health*	2
Total Hours		14

Fourth Semester

DHYG 245	Nitrous Oxide Analgesia*	1
DHYG 250	Clinical Dental Hygiene IV*	6
SPD 120	Interpersonal Communication	3
or SPD 121	Public Speaking	
or SPD 125	Personal Communication	
Health and/or Physical Education Elective [^]		1
Total Hours		11

[^] Health and/or Physical Education Elective (<http://catalog.jccc.edu/fall/degreecertificates/electives/health-and-or-physical-ed-aas>)

Total Program Hours: 83

Courses

DHYG 121 Clinical Dental Hygiene I: Pre-Clinic* (5 Hours)

Prerequisites: Admission to the Dental Hygiene Program, a minimum 2.0 GPA in curriculum courses and CHEM 122 and ENGL 121 and BIOL 140 and PSYC 130 and BIOL 230 Prerequisite: Selective Admission Approval

Corequisites: DHYG 125 and DHYG 138

Prerequisites or corequisites: DHYG 135 and SOC 122

This course will includes information and techniques relating to the history, development, current status and future of the profession of dental hygiene. Students will be introduced to fundamental dental hygiene services, instrumentation, patient assessment, preventive treatment, transmissible diseases, principles of infection control. 2 hrs. lecture, 13 hrs. lab/wk.

DHYG 125 Developmental Dentistry* (2 Hours)

Prerequisites: Admission to Dental Hygiene Program and CHEM 122 and ENGL 121 and BIOL 140 and PSYC 130 and BIOL 230

Corequisites: DHYG 121 and DHYG 138

Prerequisites or corequisites: SOC 122 and DHYG 135

This course will include a study of embryology; oral histology; developmental disturbances of the face, oral cavity and related structures; and dental morphology and occlusion. 1 hr. lecture, 3 hrs. lab/wk.

DHYG 135 Dental Materials* (2 Hours)

Prerequisites: CHEM 122 and ENGL 121 and PSYC 130 and BIOL 140 and BIOL 230

Prerequisites or corequisites: SOC 122 Corequisites: DHYG 121 and DHYG 125 and DHYG 138

This course is designed to provide students with a knowledge base of the science and physical properties of dental materials. Through laboratory exercises, students will have hands-on experience with dental materials used in dental hygiene and dentistry while applying their knowledge of dental material sciences. 1 hr. lecture, 2 hrs. lab/wk.

DHYG 138 Head and Neck Anatomy* (2 Hours)

Prerequisites: BIOL 230 and CHEM 122 and ENGL 121 and PSYC 130 and BIOL 140 and admission to the Dental Hygiene Program

Prerequisites or corequisites: SOC 122 and DHYG 135 **Corequisites:** DHYG 121 and DHYG 125

This course is designed to provide dental hygiene students with the basic anatomical foundations to support clinical course work. Topics to be covered include embryonic development of the head and neck, along with identification of the bones in the skull. Muscles of the head and neck will be identified along with their functions, insertion and origins. The vascular, lymphatic and nervous systems of the head and neck will be discussed along with the anatomical basis of the spread of infection. 3 hrs. lecture and lab/wk.

DHYG 140 Clinical Dental Hygiene II* (4 Hours)

Prerequisites: DHYG 121

Corequisites: DHYG 142 and DHYG 146 and DHYG 148

Prerequisites or corequisites: BIOL 225 and DHYG 135

The course will include clinical application of dental hygiene techniques and instrumentation, oral health products, patient motivation and educational techniques, preventive strategies including use of an intraoral clinic camera and an introduction to selected dental specialties. Students will be prepared for medical and dental emergencies, which may be encountered in various practice settings. An introduction to the dental hygiene process (ADPIE) and working with special-needs patient populations will be provided. 2 hrs. lecture & 8 hrs. clinic/wk.

DHYG 142 Dental Radiology* (2 Hours)

Prerequisites: DHYG 121

Corequisites: DHYG 140 and DHYG 146 and DHYG 148

Prerequisites or corequisites: BIOL 225 and DHYG 135

This class will concentrate on the theory and clinical practice of exposing, processing, mounting and evaluating oral radiographs with emphasis on radiation protection and infection control for the patient and operator. 1 hr. lecture, 3 hrs. lab/wk.

DHYG 146 Periodontics* (3 Hours)

Prerequisites: DHYG 121

Corequisites: DHYG 140 and DHYG 142 and DHYG 148

Prerequisites or corequisites: BIOL 225 and DHYG 135

This course will include recognition of the etiology and clinical signs and symptoms of periodontal diseases. The inflammatory process, treatment planning and nonsurgical therapy are discussed. 3 hrs. lecture/wk.

DHYG 146H HON: Periodontics (1 Hour)

One-credit hour honors contract is available to qualified students who have an interest in a more thorough investigation of a topic related to this subject. An honors contract may incorporate research, a paper, or project and includes individual meetings with a faculty mentor. Student must be currently enrolled in the regular section of the courses or have completed it the previous semester. Contact the Honors Program Office, COM 201, for more information.

DHYG 148 Dental Health Education* (2 Hours)

Prerequisites: DHYG 121

Corequisites: DHYG 140 and DHYG 142 and DHYG 146

Prerequisites or corequisites: BIOL 225 and DHYG 135

This course is designed to provide students with a knowledge base in oral health promotion; disease prevention and control; the scientific research process; evaluation of research articles; goal and objective writing; cultural competency in oral health care; client assessment; evidence based decision making and product evaluation. Students will learn to apply this knowledge using educational methodology for individuals and groups, with special emphasis on behavior modification, compliance, communication and motivation. 1 hr. lecture, 2 hrs. lab/wk.

DHYG 221 Clinical Dental Hygiene III* (6 Hours)

Prerequisites: DHYG 140 and BIOL 235

Corequisites: DHYG 225 and DHYG 230 and DHYG 240

Students will continue development in the areas of patient management, preventive dental hygiene treatment and proficiency in clinical techniques through practical application. Current advances in dental hygiene services will also be introduced. Enrollment in this course requires that you be current in payment of a professional liability fee of \$16.00. This fee is required once per calendar year based on enrollment in selected courses and must be in place prior to the start of classes. Students will be notified via their JCCC student email account if they are required to pay a \$16 fee. 2 hrs. lecture, 16 hrs. clinic/wk.

DHYG 221H HON: Clinic Dental Hygiene III (1 Hour)

One-credit hour honors contract is available to qualified students who have an interest in a more thorough investigation of a topic related to this subject. An honors contract may incorporate research, a paper, or project and includes individual meetings with a faculty mentor. Student must be currently enrolled in the regular section of the courses or have completed it the previous semester. Contact the Honors Program Office, COM 201, for more information.

DHYG 225 Pathology* (3 Hours)

Prerequisites: DHYG 140 and BIOL 235

Corequisites: DHYG 221 and DHYG 230 and DHYG 240

This course will introduce the students to concepts related to general systemic and oral pathology. General principles of pathology include inflammation, immunity, neoplasia and wound healing. Basic pathological processes of oral conditions, their etiologies and treatments will be discussed. 3 hrs. lecture/wk.

DHYG 225H HON: Pathology (1 Hour)

One-credit hour honors contract is available to qualified students who have an interest in a more thorough investigation of a topic related to this subject. An honors contract may incorporate research, a paper, or project and includes individual meetings with a faculty mentor. Student must be currently enrolled in the regular section of the courses or have completed it the previous semester. Contact the Honors Program Office, COM 201, for more information.

DHYG 230 Dental Therapeutics* (3 Hours)

Prerequisites: DHYG 140 and BIOL 235

Corequisites: DHYG 221 and DHYG 225 and DHYG 240

This course will introduce the basic principles of drug actions, emphasizing dental-related therapeutics and drugs associated with common systemic disorders, information on the selection of professional products, and principles necessary in administering local anesthesia. 2 hrs. lecture, 2 hrs. lab/wk.

DHYG 240 Community Dental Health* (2 Hours)

Prerequisites: DHYG 140 and BIOL 235

Corequisites: DHYG 221 and DHYG 225 and DHYG 230

Topics will include public health agencies, statistical procedures for critiquing scientific literature, identifying dental needs of different groups and planning dental health education programs. Preventive techniques, health promotion, consumer advocacy and the role of the dental hygienist in public health will be emphasized. Field experience will be included. 1 hr. lecture, 3 hrs. lab/wk.

DHYG 245 Nitrous Oxide Analgesia* (1 Hour)

Prerequisites: DHYG 221

Corequisites: DHYG 250

This course will concentrate on the principles of administering and monitoring nitrous oxide analgesia. Upon completion of the course, didactic and clinical proficiency in nitrous oxide analgesia will meet certification standards set by state dental boards. 1 hr. lecture, lab/wk.

DHYG 245H HON: Nitrous Oxide Analgesia (1 Hour)

One-credit hour honors contract is available to qualified students who have an interest in a more thorough investigation of a topic related to this subject. An honors contract may incorporate research, a paper, or project and includes individual meetings with a faculty mentor. Student must be currently enrolled in the regular section of the courses or have completed it the previous semester. Contact the Honors Program Office, COM 201, for more information.

DHYG 250 Clinical Dental Hygiene IV* (6 Hours)

Prerequisites: DHYG 221

Corequisites: DHYG 245

This course will offer continued development of proficiency in clinical techniques and current procedural practices of the dental hygienist with emphasis on self-evaluation. Topics will include ethics, jurisprudence, office management, current dental hygiene issues and preparation for board exams. 2 hrs. lecture, 16 hrs. clinic/wk., 1 hr. board review for first 8 wks.

DHYG 250H HON: Clinical Dental Hygiene IV (1 Hour)

One-credit hour honors contract is available to qualified students who have an interest in a more thorough investigation of a topic related to this subject. An honors contract may incorporate research, a paper, or project and includes individual meetings with a faculty mentor. Student must be currently enrolled in the regular section of the courses or have completed it the previous semester. Contact the Honors Program Office, COM 201, for more information.

DHYG 291 Independent Study* (1-7 Hour)

Prerequisites: 2.0 GPA minimum and department approval

Independent study is a directed, structured learning experience offered as an extension of the regular curriculum. It is intended to allow individual students to broaden their comprehension of the principles of and competencies associated with the discipline or program. Its purpose is to supplement existing courses with individualized, in-depth learning experiences. Such learning experiences may be undertaken independent of the traditional classroom setting, but will be appropriately directed and supervised by regular instructional staff. Total contact hours vary based on the learning experience. Enrollment in this course requires that you be current in payment of a professional liability fee of \$16.00. This fee is required once per calendar year based on enrollment in selected courses and must be in place prior to the start of classes. Students will be notified via their JCCC student email account if they are required to pay a \$16 fee.