

# INDIANA UNIVERSITY SCHOOL OF DENTISTRY

Dental School (DS)  
1121 W. Michigan Street  
Indianapolis, IN 46202  
(317) 274-8173  
[www.iusd.iupui.edu](http://www.iusd.iupui.edu)



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# History of the School of Dentistry

Indiana University School of Dentistry (IUSD) is one of the oldest dental schools in the nation. It was established as the Indiana Dental College in 1879 and became part of Indiana University in 1925. In 1933, IU built a facility to house the school at its current site on what is now known as the Indiana University–Purdue University Indianapolis campus. It is the only dental school in the Hoosier state.

The school's reputation for excellence took firm root in the 1940s, when several key teachers and researchers began long and prolific careers as members of the dental faculty. It was during this era, for example, that three IU scientists, including dental professor Joseph Muhler, created the first stannous fluoride formula that became the active decay-preventing agent in Crest toothpaste. Dr. Muhler and other pioneering teachers at the dental school contributed a body of groundbreaking work that drew worldwide attention to Indiana University, and each left a legacy of knowledge that helped build the foundation for contemporary dental science.

Currently, more than 300 faculty members contribute to the dental school's teaching and research programs, including 115 in full-time positions. About 40,000 square feet of space divided into more than a dozen facilities is now devoted to dental research opportunities at IU, including the Oral Health Research Institute, whose researchers have gained prominence for their studies of such subjects as fluoride and dental caries prevention.

More than 11,000 alumni of the school pursue a variety of careers in private practice, education, research, and public health throughout the United States and in more than 30 other countries.

## Mission

IUSD is a member of the American Dental Education Association and is fully accredited by the Commission on Dental Accreditation of the American Dental Association.

Its mission is to promote optimal oral and general health of Indiana citizens and others through educational, research, and service programs. The school is committed to recruiting quality students and preparing them to become highly competent, ethical, and socially responsible practitioners of dentistry. The school also sees as part of its responsibilities the creation of opportunities for career-long learning for its graduates and other dental professionals through continuing education programs.

The school strives to maintain its role as a vital and productive member of Indiana University's scholarly community. It is dedicated to increasing the knowledge base in all areas related to oral health through an extensive research program that includes the participation of both faculty and students.

The school provides a broad spectrum of patient services as a principal means of furnishing clinical educational opportunities for students. Nearly 90,000

dental appointments are scheduled annually for a population of about 22,000 dental patients. Treatment is provided in the school's clinics as well as at patient care facilities at IU's Riley Hospital Outpatient Center, University and Wishard Memorial hospitals, and two community health centers.

The dental school continually emphasizes to its students the importance of community service. Through collaborative partnerships with schools, health care centers, and other facilities in central Indiana, the school seeks to expose students to a variety of service-learning experiences, particularly those involving special population groups. Students also are taught that part of their ongoing responsibilities as health care providers in the community will be to increase public awareness of the critical role oral health plays in one's overall well-being.

## List of Programs

About 650 students of allied dentistry, dentistry, and graduate dental programs pursue certificates and degrees on the Indianapolis campus. Programs are offered in the following subjects:

### Undergraduate\*

Certificate in Dental Assisting  
Associate of Science in Dental Hygiene (A.S.D.H.)  
Bachelor of Science in Public Health Dental Hygiene (B.S.)

### Professional

Doctor of Dental Surgery (D.D.S.)

### Graduate

Master of Science in Dentistry (M.S.D.) in a choice of eight subjects: Dental Materials, Endodontics, Operative Dentistry, Orthodontics, Pediatric Dentistry, Periodontics, Preventive Dentistry, and Prosthodontics.

Two degrees are offered through the University Graduate School:

Master of Science (M.S.) in Dental Materials  
Doctor of Philosophy (Ph.D.) in Dental Science

### Postgraduate

Certificate in General Practice Residency (GPR)  
Certificate in Oral and Maxillofacial Surgery

### Contact Information

Persons with an interest in applying to or learning more about any of the school's programs should access a copy of the School of Dentistry Bulletin for a full account of the school's rules, policies, fees, curricula, courses, and other matters (<http://www.indiana.edu/~bulletin/iupui/dentistry/2005-2007/index.html>). Program details are also available on the IUSD Student Records and Admissions Web site ([www.iusd.iupui.edu/depts/edu/SA/default.htm](http://www.iusd.iupui.edu/depts/edu/SA/default.htm)).

\*Undergraduate programs are also offered at several other IU campuses: the dental assisting certificate and dental hygiene associate's degree programs are available at the Fort Wayne, Gary, and South Bend campuses; the bachelor's degree program for dental hygienists is offered at Fort Wayne; and an associate degree program in dental laboratory technology is offered only at Fort Wayne. Students interested in programs at Fort Wayne, Gary, and South Bend should check with counselors on those campuses for specific requirements, which may vary from those at Indianapolis.

*Information about dental hygiene and dental assisting presented in this bulletin pertains only to programs on the Indianapolis campus.*

Requests for information should be directed to the following offices:

#### For the A.S.D.H. and D.D.S. degree programs:

Student Records and Admissions Office  
Indiana University School of Dentistry  
1121 West Michigan Street  
Indianapolis, IN 46202-5186  
Telephone: (317) 274-8173  
E-mail: [ds-stdnt@iupui.edu](mailto:ds-stdnt@iupui.edu)  
[www.iusd.iupui.edu/depts/edu/SA/default.htm](http://www.iusd.iupui.edu/depts/edu/SA/default.htm)

#### For the M.S.D., M.S., and Ph.D. degree programs:

Office of Graduate Education  
Indiana University School of Dentistry  
1121 West Michigan Street  
Indianapolis, IN 46202-5186  
Telephone: (317) 274-5348  
E-mail: [ds-grad@iupui.edu](mailto:ds-grad@iupui.edu)  
[www.iusd.iupui.edu/Depts/GE/default.aspx](http://www.iusd.iupui.edu/Depts/GE/default.aspx)

#### For the Certificate in Dental Assisting:

Division of Dental Assisting  
Department of Periodontics and Allied Dental Programs  
Indiana University School of Dentistry  
1121 West Michigan Street  
Indianapolis, IN 46202-5186  
Telephone: (317) 274-4407  
[www.iusd.iupui.edu/depts/PA/Dent\\_Assist/default.htm](http://www.iusd.iupui.edu/depts/PA/Dent_Assist/default.htm)

#### For the B.S. in Public Health Dental Hygiene degree:

Division of Dental Hygiene  
Department of Periodontics and Allied Dental Programs  
Indiana University School of Dentistry  
1121 West Michigan Street  
Indianapolis, IN 46202-5186  
Telephone: (317) 274-7801  
[www.iusd.iupui.edu/depts/EDU/sa/DHmaterials.htm](http://www.iusd.iupui.edu/depts/EDU/sa/DHmaterials.htm)

#### For the General Practice Residency or the Oral and Maxillofacial Surgery Residency:

Coordinator  
GPR and Oral and Maxillofacial Surgery Programs  
Department of Oral Surgery and Hospital Dentistry  
1050 Wishard Blvd., Room 4201  
Indianapolis, IN 46202  
Telephone: (317) 278-3662  
[www.iusd.iupui.edu/Depts/OSHD](http://www.iusd.iupui.edu/Depts/OSHD)

## Allied Dental Programs

Allied Dental Programs is a title that serves as an umbrella primarily for three areas of study for persons seeking careers associated with the profession of dentistry — dental assisting, dental hygiene, and dental laboratory technology. The Indianapolis campus offers programs in dental assisting and dental hygiene; both are housed in the school's Department of Periodontics and Allied Dental Programs.

## Dental Hygiene

### Periodontics and Allied Dental Programs

**Interim Chair and Associate Professor** Vanchit John

**Director and Associate Professor** Nancy A. Young

**Professors** Gail F. Williamson, Susan L. Zunt

**Associate Professor** L. Jack Windsor

**Clinical Associate Professors** Jerome C. Cureton, Charles O. Hazelrigg, Elizabeth A. Hughes, Pamela A. Rettig, Cullen C. Ward

**Assistant Professor** Cheryl A. Krushinski, R. Hunter Rackley Jr.

**Clinical Assistant Professors** Jane L. Blanchard, Lorinda L. Coan, Stephen M. Farrar, Ana Gossweiler, Evan R. Hiple, Joyce C. Hudson, Seok-Jin Kim, James M. Oldham, Norman L. Stump

**Clinical Lecturers** Kimberly J. DeOrto, Valerie M. Edlund, Peggy A. Fabiani, Julie A. Hardwick, Kate E. Leach, Lisa L. Maxwell, Aleksandra Pavolotskaya, Sally I. Phillips, Sharon A. Querry, Angel J. Reed, Elizabeth A. Rinehart, Raquel N. Sayman, Wendy S. Smith, Bonita B. Strack, Sandra J. Townsend

The dental hygienist is a member of the dental health team providing educational, preventive, and therapeutic oral health services. Employment opportunities may be available in private dental practice, hospitals, public health, educational institutions, and research. Indiana University offers a program leading to an Associate of Science degree in dental hygiene and a program leading to a Bachelor of Science degree in public health dental hygiene.

### Associate of Science Degree

The Indianapolis-based Associate of Science degree program in dental hygiene is two academic years in length, and is composed of a core curriculum of 27 courses presented over four semesters and one summer session. All courses are mandatory.

The curriculum supports attainment of the following list of competencies expected of a dental hygienist entering the profession.

The graduate will be prepared to:

1. apply a professional code of ethics in all endeavors;
2. adhere to state and federal laws, recommendations, regulations, and safety practices in the provision of dental hygiene care;
3. provide dental hygiene care to promote patient/client health and wellness using critical thinking and problem solving in the provision of evidence-based practice;
4. assume responsibility for dental hygiene actions and care based on accepted scientific theories and research as well as the accepted standard of care;
5. continuously perform self-assessment for lifelong learning and professional growth;
6. advance the profession through service activities and affiliations with professional organizations;
7. provide quality assurance mechanisms for health services;

8. communicate effectively with individuals and groups from diverse populations both orally and in writing;
9. provide accurate, consistent, and complete documentation for assessment, diagnosis, planning, implementation, and evaluation of dental hygiene services;
10. provide care to all clients using an individualized approach that is humane, empathetic, and caring;
11. provide planned educational services using appropriate interpersonal communication skills and educational strategies to promote optimal oral health;
12. initiate and assume responsibility for health promotion, health education, and disease prevention activities for diverse populations;
13. systematically collect, analyze, and record data on the general, oral, and psychosocial health status of a variety of patients/clients using methods consistent with medico-legal principles;
14. use critical decision-making skills to reach conclusions about the patients'/clients' dental hygiene needs based on all available assessment data;
15. collaborate with the patient/client and/or other health professionals to formulate a comprehensive dental hygiene care plan that is patient/client-centered and based on current scientific evidence;
16. provide specialized treatment that includes preventive and therapeutic services designed to achieve and maintain oral health; and
17. evaluate the effectiveness of the implemented clinical, preventive, and educational services and modify as needed.

### Admission Requirements

Required prerequisite courses may be taken at any accredited college or university if they are listed as approved courses by the Student Records and Admissions Office at the Indiana University School of Dentistry. A listing of currently approved courses can be accessed at the following Web site: [www.iusd.iupui.edu/depts/EDU/sa/preindiana.htm](http://www.iusd.iupui.edu/depts/EDU/sa/preindiana.htm). They include one semester each of English composition, chemistry with laboratory, human anatomy, human physiology, microbiology with laboratory, psychology, sociology, and public speaking, and two semester courses in arts and humanities. Remedial courses may not be used to fulfill this requirement. All applicants must maintain a minimum cumulative college grade point average of 2.5 (on a 4.0 scale) and achieve a minimum course grade of 2.0 (on a 4.0 scale) on all prerequisite courses to be considered for admission to the program. In addition, applicants must earn a 2.7 grade point average in the combined prerequisite science courses (inorganic chemistry, microbiology, human anatomy, and human physiology). Please note that if prerequisite courses are retaken for an improved grade, all course grades will be included in the computed grade point averages. Courses taken at institutions other than Indiana University must show a grade of C or above to be accepted as transfer credit by Indiana University. The required science courses must be completed by the end of the spring semester of the year in which the applicant applies to enter the

program, and preference will be given to students who have completed all required courses by the end of that spring semester. Required science courses must have been completed within the past seven years. Questions about course work that does not meet these time limits should be directed to the Student Records and Admissions Office at IUSD.

All candidates applying for admission must provide documentation that they have recently completed the prescribed number of hours (eight) of observation of a practicing dental hygienist in at least two different practice settings. They must also submit a personal statement. Specific instructions for documenting observations and the personal statement are available at the dental hygiene admissions Web address ([www.iusd.iupui.edu/depts/EDU/sa/DHmaterials.htm](http://www.iusd.iupui.edu/depts/EDU/sa/DHmaterials.htm)) or from the Student Records and Admissions Office. Each eligible candidate will also be asked to attend a mandatory Dental Hygiene Applicant Orientation to the Dental Hygiene Program at IUSD prior to being considered for admission. Dates of orientation sessions will be posted on the admissions Web site.

All applications and supporting materials are to be submitted by February 1. Applicants who have previously applied must submit a new application when reapplying. Applications to the IUSD dental hygiene program may be obtained by contacting the dental school's Student Records and Admissions Office or from the Web site. Requirements and forms for admission to the IUSD dental hygiene program are specific to this program only and are not acceptable for admission to other dental hygiene programs in the state. Applications for admission to any other Indiana dental hygiene program must be directed to those programs and follow their prescribed procedures. **All potential applicants are advised to consult the School of Dentistry's Student Records and Admissions Office or Web site for updates or changes in dental hygiene admissions policies that may occur after publication of this document.**

Class size is limited, and there are more qualified applicants than can be accepted each year. Applicants are encouraged to consult with the Student Records and Admissions Office or the program director for pre-dental hygiene counseling. Selections are made on an individual basis, upon appraisal of the applicant's established record and potential for development.

Potential applicants are advised to review the list of minimum skill standards for admission and retention in the dental hygiene profession. This document is provided on the Web site and from the school's Student Records and Admissions Office. In addition to these standards, it is necessary that students enrolled in the dental hygiene program enter with basic computer literacy sufficient to allow them to participate in instruction involving computer-based course work, Internet-searching, basic word processing, and e-mail applications.

### Tuition and Ancillary Fees

Information about tuition and ancillary fees is provided on the Web site of the School of Dentistry's Student Records and Admissions Office.

## Curriculum for Dental Hygienists

### PRE-DENTAL HYGIENE

(exact course sequencing may vary depending on course schedules and individual pace of enrollment)

English Composition  
Sociology  
Arts and Humanities  
Chemistry with Laboratory  
Human Anatomy  
Arts and Humanities  
Public Speaking  
Psychology  
Human Physiology  
Microbiology with Laboratory

### DENTAL HYGIENE (FIRST YEAR)

#### First Semester

H204 Periodontics  
H206 General Pathology I  
H214 Oral Anatomy  
H216 Chemistry and Nutrition  
H218 Fundamentals of Dental Hygiene  
H224 Oral Histology and Embryology  
H303 Radiology

#### Second Semester

H205 Medical and Dental Emergencies  
H207 General Pathology II  
H215 Pharmacology and Therapeutics  
H219 Clinical Practice I  
H308 Dental Materials  
H321 Periodontics

### DENTAL HYGIENE (SUMMER SESSION)

H217 Preventive Dentistry  
H221 Clinical Dental Hygiene Procedures  
H252 Introduction to Evidence-Based Dental Hygiene Care  
H305 Radiology Clinic I

### DENTAL HYGIENE (SECOND YEAR)

#### First Semester

H301 Clinical Practice II  
H304 Oral Pathology  
H306 Radiology Clinic II  
H311 Dental Health Education  
H347 Community Dental Health (introduction)  
E351 Advanced Dental Materials for Dental Auxiliaries

#### Second Semester

H302 Clinical Practice III  
H307 Radiology Clinic III  
H344 Senior Hygiene Seminar  
H347 Community Dental Health (practicum)

### Courses for the Associate of Science Dental Hygiene Degree

**H204 Periodontics (1 cr.)** Study of the normal periodontium at the clinical, histologic, and biochemical levels; procedures involved in carrying out a comprehensive periodontal examination and performing a periodontal prophylaxis.

**H205 Medical and Dental Emergencies (1 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.

### H206-H207 General Pathology I and II (1-1 cr.)

Mechanisms of disease at the cellular, organ, and systemic levels with special references to specific disease processes; includes general concepts, terminology, and pathology of organ systems.

**H214 Oral Anatomy (3 cr.)** A study of the morphology, structure, and function of deciduous and permanent teeth and surrounding tissues, also including osteology of the maxilla and mandible, nerve and vascular supply of teeth, and muscles of mastication, with reinforcing laboratory procedures and clinical application.

**H215 Pharmacology and Therapeutics: First Year (2 cr.)** Actions and uses of drugs and theory of anesthetics; emphasis on drugs used in dentistry.

**H216 Chemistry and Nutrition: First Year (3 cr.)** Specific ideas in chemistry are correlated with working principles in dentistry. Previous knowledge of chemistry assumed.

**H217 Preventive Dentistry: Second Year (1 cr.)** Detection and prevention of dental disease; included is a study of dental surveys, dental indices, and fluoride therapy.

**H218 Fundamentals of Dental Hygiene: First Year (4 cr.)** An introduction to the dental and dental hygiene profession, including the basic didactic and laboratory/clinic practice for the performance of dental hygiene services.

**H219 Clinical Practice I (4 cr.)** Performance of dental hygiene services in various clinical settings. Included is didactic instruction and application of dental hygiene procedures for providing patient care and an introduction to oral diagnosis.

**H221 Clinical Dental Hygiene Procedures (1-3 cr.)** Clinical assignment for instruction and experience in performing dental hygiene services.

**H224 Oral Histology and Embryology (1 cr.)** Histological aspects of the tooth and periodontium: embryologic development of the face and neck.

**H252 Introduction to Evidence-Based Dental Hygiene Care (1 cr.)** Foundational knowledge to implement evidence-based decision-making strategies in the provision of patient/client care. It includes basic knowledge and skills related to research terminology, library and computer-based information retrieval systems, approaches to reviewing and evaluating scientific literature, and dental indices used in the description of oral health and disease.

**H301-H302 Clinical Practice II-III (5-5 cr.)** Continued performance of dental hygiene services in various clinical settings. Included are didactic instruction and clinical application of dental hygiene services for providing patient care.

**H303 Radiology (1 cr.)** Principles of radiation production, placement of intraoral film, proper exposure and processing of film, radiation safety, and interpretation of radiographs.

**H304 Oral Pathology: Second Year (2 cr.)** Developmental abnormalities and acquired disorders of teeth and surrounding structure.

**H305-H306-H307 Radiology Clinic I-II-III (1-1-1 cr.)** Clinical application of intraoral and extraoral radiographs.

### H308 Dental Materials: First Year (2 cr.)

Composition and physical and chemical properties of materials used in dentistry.

**H311 Dental Health Education (3 cr.)** An introduction to basic communication and motivation skills, instructional objectives, learning theory, evaluation of educational materials, and special needs patients.

**H321 Periodontics (1-2 cr.)** A study of periodontal disease, including the anatomy, classification, etiology, treatment, and relationship to systemic conditions.

**H344 Senior Hygiene Seminar (2 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.

**H347 Community Dental Health (4 cr.)** Principles and practice of program planning, implementation, and evaluation for community and school dental health programs.

**E351 Advanced Dental Materials for Dental Auxiliaries (2 cr.)** Lecture and laboratory course designed to teach additional concepts of dental materials and their use in intraoral techniques. Included is instruction in dental auxiliary utilization principles and the manipulation of dental materials used in delegated intraoral functions.

## Bachelor of Science Degree

The Bachelor of Science degree-completion program in public health dental hygiene provides an opportunity for graduate dental hygienists to develop further expertise in public health methods or dental hygiene education and includes application of practical experience. It is designed to meet the needs of part-time students who wish to work while completing their bachelor's degree. It prepares hygienists for leadership roles in education, public health, commercial ventures, professional associations, and/or health advocacy. It can enhance career opportunities available to dental hygienists in a variety of areas, including but not limited to: state and county health departments, academia, sales and marketing, educational software development, pharmaceuticals, dental education consulting, dental insurance companies, research, and clinical dental hygiene. Program activities promote development of professional leadership skills and prepare hygienists for entry into graduate programs.

The program's objectives are designed to provide students with the education and skills to:

1. perform dental hygiene services in a variety of settings (e.g., private dental practice, public health clinics, school systems, institutions, and hospitals);
2. design, implement, and evaluate effective preventive dental health programs for individuals and for groups in such settings as schools, hospitals, institutions, and community programs;
3. serve as a resource person and work in cooperation with other health personnel in assessing health care needs and providing health care services to the public;
4. plan, implement, and evaluate effective teaching methodologies in an educational setting;

5. supervise the teaching of dental hygiene services in a clinical/public health setting;
6. prepare for admission to graduate programs; and
7. continue their professional education and personal growth.

### Admission Requirements

Prerequisites to the public health dental hygiene program include completion of 90 undergraduate semester hours, graduation from an accredited dental hygiene program, satisfactory completion of the National Board Dental Hygiene Examination, and current licensure as a dental hygienist. Accepted students are expected to have basic computer literacy sufficient to participate in Web-based instruction, computer word-processing, and e-mail communication. An application to the program may be obtained by addressing communications to Director, Dental Hygiene Program, Indiana University School of Dentistry, 1121 West Michigan Street, Indianapolis, IN 46202-5186. Applications may be received at any time during the academic year, but the completed application must be submitted to the program director *at least 60 days prior* to the first semester in which the applicant wishes to enroll. Completion of all application requirements and an interview with the program director or admissions committee is required before acceptance into the program can be considered. Upon acceptance, each student must complete a curriculum plan to be approved by the program director before enrollment in required courses.

Students in the public health dental hygiene program must complete a total of 32 semester hours of course work, including the following courses that comprise the required core curriculum. In addition to the core courses, students must complete approved elective courses in a selected focus area (e.g. behavioral sciences, education, or basic sciences) to fulfill the 32 semester hour completion requirement of the bachelor's degree.

### Core Courses for the Bachelor of Science Public Health Dental Hygiene Degree<sup>1</sup>

**Statistics:** Recommended courses include STAT 301 Elementary Statistical Methods (3 cr.) or PSY B305 Statistics (3 cr.)

#### STAT 301 Elementary Statistical Methods (3 cr.)

P: Must enroll in lab. A basic introductory statistics course with applications shown to various fields and emphasis placed on assumptions, applicability, and interpretations of various statistical techniques. Subject matter includes frequency distribution, descriptive statistics, elementary probability, normal distribution, applications, sampling distribution, estimation, hypothesis testing, and linear regression.

**PSY B305 Statistics (3 cr.)** P: PSY B104 Psychology as a Social Science or PSY B105 Psychology as a Biological Science and 3 credits of math that carry School of Science credit. Introduction to basic statistical concepts; descriptive statistics and inferential statistics.

#### DHYG H406 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 H407 Instructional Media and Technology in Health Science Education (1-3 cr.)

The purpose of this course is to examine the utilization of a variety of instructional technologies that can be used in educational settings for patients, students, and practitioners. Various technologies will be analyzed for appropriateness of use, strengths, and weaknesses. A variety of delivery mechanisms will be used, including an on-line component.

#### DHYG H403 Advanced Community Dental Hygiene (4 cr.)

Public health principles including a study of the health care delivery system and preventive public health care at the community level.

#### DHYG H405 Advanced Dental Science (3 cr.)

Review of current literature related to periodontics, oral pathology, preventive dentistry, and the current practices of dental hygiene.

#### DHYG H402 Practicum in Dental Hygiene Education (4 cr.)

P: H403, Z477. Structured practical experience in planning, supervising, coordinating, and evaluating instruction in an educational setting. Emphasis on faculty roles and responsibilities.

<sup>1</sup> For the most current information on the dental hygiene bachelor's degree program, contact the IUSD Dental Hygiene Program at (317) 274-7801.

## Dental Assisting

### Periodontics and Allied Dental Programs Interim Chair and Associate Professor Vanchit John

Director of Campus Program and Clinical Assistant Professor Pamela T. Ford

Director of Distance-Learning Program and Clinical Associate Professor Patricia A. Capps

Professor Gail F. Williamson

Clinical Associate Professor Pamela A. Rettig

Assistant Professor Cheryl A. Krushinski, Paul A. Zitterbart

Clinical Assistant Professors Matthew C. Moeller, James M. Oldham, Norman L. Stump

Clinical Lecturers Sheri R. Alderson, Michelle Bissonette

Research Laboratory Manager Charles J. Palenik

Indiana University's Indianapolis-based dental assisting program is one academic year in length and is composed of 15 mandatory courses encompassing approximately 1,000 hours of lecture, laboratory, and clinical instruction. Students who successfully complete the program receive a certificate and are eligible to take the Dental Assisting National Board Examination.

Applicants may now choose between two types of programs to earn a certificate in dental assisting: a traditional full-time on-campus program in which students receive all of their training at the School of Dentistry, or a distance-learning program in which students complete most of their nonclinical courses online while receiving clinical experience in community dental offices.

Both the campus and distance-learning dental assisting certificate programs prepare the graduate to:

1. become proficient in applying knowledge of basic behavioral, cultural, and dental sciences to clinical practice;
2. communicate effectively with other health care professionals in coordinating and providing patient care;
3. apply problem-solving and decision-making skills when assisting with dental health services under the direction and supervision of the dentist;
4. internalize the importance of lifelong learning and understand the importance of remaining current as the dental health care delivery system changes;
5. acquire knowledge and skills to promote and participate in preventive dental care and support oral health through promotion of total health;
6. comply with state and federal laws governing the practice of dentistry and dental assisting;
7. be academically prepared to sit for all national, certification, and licensing examinations; and
8. understand the importance of becoming a civic-minded, fully engaged member of the community.

### Dental Assisting Core Curriculum

A110	Oral Histology and Embryology
A111	Oral Pathology, Physiology, and Anatomy I
A112	Dental Therapeutics and Medical Emergencies
A113	Oral Pathology, Physiology, and Anatomy II
A114	Oral Anatomy
A121	Microbiology and Asepsis Technique
A131	Dental Materials I
A132	Dental Materials II
A141	Preventive Dentistry and Nutrition
A151	Radiology Clinic I
A152	Radiology Clinic II
A162	Written and Oral Communication
A171	Clinical Science I
A172	Clinical Science II
A182	Practice Management, Ethics, and Jurisprudence

### Electives

A190	Expanded Restorative Dentistry
A300	Special Topics in Dental Education

### Tuition and Ancillary Fees

Information about tuition and ancillary fees is provided on the Web site of the School of Dentistry's Student Records and Admissions Office.

### Admission Requirements (Campus Program)

1. Applying to the dental assisting program on the Indianapolis campus is a two-step process involving both the IUPUI Office of Admissions and the IU School of Dentistry Division of Dental Assisting: Applicants must first file an admission application with the IUPUI Office of Admissions and be admitted to the university as an undergraduate student. Qualified applicants will be notified of their university admittance by IUPUI. The IUPUI Office of Admissions' application packet will also contain an application for admission to the dental school's dental assisting program. Applicants will submit this application to the Division of Dental Assisting. All

IUPUI application materials are available through the IUPUI Enrollment Center (www.enroll.iupui.edu; 317-274-4591).

- Applications must include official transcripts from the candidate's high school and all post-secondary schools attended, including colleges, universities, and vocational institutions. The transcripts of applicants who are currently enrolled in their senior year of high school should include grades from fall semester. Graduates of GED programs must submit a copy of their GED certificate and scores. Official transcripts showing all academic work completed must be submitted before final acceptance to the dental assisting program.
- Applicants must have an overall minimum cumulative grade point average of 2.0 (on a 4.0 scale) as well as a minimum of 2.0 in science and English courses taken in high school and college.
- Applicants must have documented proof of keyboarding skills.
- Applicants must observe a chairside dental assistant in a dental office for a minimum of eight hours. The IUSD Dental Assisting Verification of Dental Office Observation Form is to be signed by the dentist and submitted to the Dental Assisting Program by the application deadline.
- Individuals for whom English is a secondary language must take the English as a Second Language (ESL) Placement Test on the IUPUI campus. For more information, visit the ESL Web site (english.iupui.edu/esl/esl.html). The ESL test results will be used as part of the admissions review, and the admissions committee may also require an interview or writing exercise to determine the applicant's English skills.

**The application deadline for the campus program is 5 p.m. on June 1** prior to the fall semester the applicant wishes to enter the program. Applicants should send the completed application (photo optional), observation form, and all official transcripts to the Dental Assisting Program, Indiana University School of Dentistry, 1121 West Michigan Street, DS 430, Indianapolis, IN 46202-5186. Incomplete applications will not be considered.

**All potential applicants are advised to consult the School of Dentistry's Dental Assisting Program Web site for updates or changes in dental assisting admissions policies that may occur after publication of this document.**

### Distance-Learning Program

The IU School of Dentistry distance-learning dental assisting program was established in 2007 as an alternative to the campus program to help make a dental assisting education more accessible to candidates who are not conveniently located near campus or who are trying to obtain a college education while managing full-time work and/or family responsibilities.

This program is the first to be offered in Indiana and one of only a very few in the United States. Like all of the School of Dentistry's other programs, it is fully accredited by the American Dental Association Commission on Dental Accreditation. Enrollment is limited.

The program uses Indiana University's online course management system to teach nonclinical subjects, and students may access the courses at a time that is convenient to them. Students should anticipate devoting about two hours a day to their online studies, which will include reading, writing, and video assignments.

Students must also spend one Saturday a month throughout the school year on site at the dental school to complete laboratory assignments and take examinations.

Clinical training is provided primarily in the second semester by a sponsoring general dentist of the student's choice. Students will receive a minimum of 300 clock hours of clinical practice.

### Admission Requirements (Distance-Learning Program)

Applicants should follow admission requirements 1 through 6 for the campus program (listed above) as well as requirements 7 through 9 listed below:

- Applicants must identify a sponsoring general practice dentist holding an active Indiana dental license who can provide clinical training in the field of general dentistry.
- Applicants must meet the university's technology requirements:
  - Office XP software
  - Internet access at Explorer IE6 or higher (DSL or cable modem access is recommended)
- Applicants must be able to travel to the Indiana University School of Dentistry when necessary (typically, one Saturday a month throughout the school year).

**The application deadline for the distance-learning program is 5 p.m. on June 1** prior to the fall semester the applicant wishes to enter the program. Applicants should send the completed application (photo optional), observation form, and all official transcripts to the Dental Assisting Program, Indiana University School of Dentistry, 1121 West Michigan Street, DS 430, Indianapolis, IN 46202-5186. Incomplete applications will not be considered.

**All potential applicants are advised to consult the School of Dentistry's Dental Assisting Program Web site for updates or changes in dental assisting admissions policies that may occur after publication of this document.**

### Courses for the Dental Assisting Certificate Program

**A110 Oral Histology and Embryology (1 cr.)** Development, structure, and function of cells and tissues of the teeth and periodontium; embryologic development of the face, palate, and teeth.

**A111-A113 Oral Pathology, Physiology, Anatomy I-II (2-1 cr.)** A111 is an overview of the structures, functions, and selected diseases of the human body, including basic cells, tissues, organs, and organ systems. A113 is an introduction to diseases of the oral cavity and its related structures.

**A112 Dental Therapeutics and Medical Emergencies (2 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.

**A114 Oral Anatomy (3 cr.)** A study of the morphology, structure, and function of deciduous and permanent teeth and surrounding tissues, also including osteology of the maxilla and mandible, nerve and vascular supply of teeth, and muscles of mastication, with reinforcing laboratory procedures and clinical application.

**A121 Microbiology and Asepsis Technique (1 cr.)** A study of microbial types, oral microbiology, bloodborne diseases, and infection control including procedures of instrument cleaning and sterilization, surface disinfection, use of protective barriers, waste management, and hazardous materials management.

**A131-A132 Dental Materials I-II (2-2 cr.)** Lecture and laboratory courses designed to familiarize the student with the basic mechanical, physical, and chemical properties of dental materials. The role of the assistant in selection, manipulation, and biological considerations of dental materials is stressed.

**A141 Preventive Dentistry and Nutrition (2 cr.)** Etiology of prevalent oral diseases and their preventions with particular emphasis on plaque, plaque control, and fluorides. The effects of major nutrients on the physiologic body processes; applied nutrition in dental caries and periodontal disease. Clinical and laboratory experiences.

**A151 Radiology Clinic I (2 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.

**A152 Radiology Clinic II (1 cr.)** Clinical experience in the placing, exposing, processing, evaluating, and mounting of intraoral and extroral dental radiographs. Practical application of radiation safety measures is required in the clinical setting.

**A162 Written and Oral Communication (2 cr.)** Instruction and practice in gathering and organizing material for written and oral presentation. Individual and group projects in communication, including table clinics, posters, professional articles for publication, telephone techniques, and resumes.

**A171 Clinical Science I (4 cr.)** A core course in dental nomenclature; the role of the assistant as a member of dental health team in general dentistry and dental specialties to include charting the mouth, identification and utilization of instruments and equipment, principles of dental procedures, instrument transfer, isolation techniques, and asepsis procedures.

**A172 Clinical Science II (4 cr.)** Clinical chairside experience, including an extramural assignment; allows for refining of student skills. A seminar provides students opportunities to share experiences.

**A182 Practice Management, Ethics, and Jurisprudence (2 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, and inventory control. Also, the legal and ethical aspects of dentistry are discussed.

**A190 Expanded Restorative Dentistry (3 cr.)**

Lecture, laboratory, and clinical course designed to teach more extensively certain concepts of dental materials and their use in intraoral techniques. The principles of dental auxiliary utilization and the manipulation and placement of dental materials used in delegated intraoral functions are taught.

**A300 Special Topics in Dental Education (1 cr.)**

P: Chairperson's permission and admission to dental assisting, dental hygiene, or dental laboratory technology program. An advanced course for dental education majors. Supervised reading or projects on approved topics in dentistry. Hours, subject matter, and evaluation to be determined by faculty.

## Administration

**Dean** Lawrence I. Goldblatt

**Executive Associate Dean** Jeffrey A. Dean

**Associate Deans**

Jeffrey A. Dean, Academic Affairs  
Lawrence P. Garetto, Dental Education  
Michael J. Kowolik, Graduate Education  
George P. Willis, Clinical Affairs  
Domenick T. Zero, Research

**Assistant Dean**

Robert H. Kasberg, Student Affairs

**Chairs**

William J. Babler, Department of Oral Biology  
(Interim)  
Jeffrey D. Bennett, Department of Oral Surgery and  
Hospital Dentistry  
Cecil E. Brown Jr., Department of Endodontics  
(Interim)  
David T. Brown, Department of Restorative Dentistry  
Katherine S. Kula, Department of Orthodontics and  
Oral Facial Genetics  
Vanchit John, Department of Periodontics and Allied  
Dental Programs (Interim)  
James E. Jones, Department of Pediatric Dentistry  
Domenick T. Zero, Department of Preventive and  
Community Dentistry  
Susan L. Zunt, Department of Oral Pathology,  
Medicine, and Radiology

**Faculty**

See the School of Dentistry Bulletin for a complete list of the School of Dentistry faculty.