

# INDIANA UNIVERSITY SCHOOL OF DENTISTRY



Dental School (DS)  
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Indianapolis, IN 46202  
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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. Today this sprawling, five-story edifice is composed of the original building and two major additions. 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 on 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, 125 full-time and 115 part-time faculty members contribute to IU's teaching and research programs, and many have earned solid reputations as experts in their fields. 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 school's 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. More than 100,000 dental appointments are scheduled annually for a population of nearly 21,000 dental patients. Treatment is provided in the school's clinics as well as at several other patient care facilities, including the pediatric dentistry clinic at IU's Riley Hospital Outpatient Center, the oral and maxillofacial surgery clinics at University and Wishard Memorial hospitals, and two clinics located in the community.

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 outreach 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 635 students of allied dentistry, dentistry, and graduate dental programs currently are pursuing 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 obtain a copy of the School of Dentistry Bulletin for a full account of the school's rules, policies, fees, curricula, courses, or other matters. Program details are also available on the IUSD Web site: [www.iusd.iupui.edu](http://www.iusd.iupui.edu) (see Departments at [www.iusd.iupui.edu/Depts/default.htm](http://www.iusd.iupui.edu/Depts/default.htm)).

Information about Dental Hygiene presented in this bulletin pertains only to programs on the Indianapolis campus.

Requests for bulletins and other information should be directed to the following:

**For the A.S.D.H. (Indianapolis campus), D.D.S., M.S.D., M.S., and Ph.D. degree programs:**  
Office of Admissions and Student Affairs  
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)

### For the Dental Assisting Program (Indianapolis campus):

Director 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

### For the B.S. degree in Public Health Dental Hygiene (Indianapolis campus):

Director 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

### 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

\*Undergraduate programs are also offered at several other IU campuses, accordingly: 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.

## Allied Dental Programs

**Periodontics and Allied Dental Programs Chair and Professor of Periodontics** E. Brady Hancock

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. For information about the Dental Assisting Program, contact the director (details listed on page 99).

### Dental Hygiene

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

**Chairperson of Periodontics and Allied Dental Programs and Professor** E. Brady Hancock

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

**Clinical Professor** Mark E. Mallatt

**Associate Professors** Steven H. Larsen, Jack. E. Schaaf, Don-John Summerlin

**Clinical Associate Professors** Charles O. Hazelrigg, Pamela A. Rettig

**Assistant Professor** R. Hunter Rackley Jr.

**Clinical Assistant Professors** Jane L. Blanchard, Lorinda L. Coan, Joyce C. Hudson, Elizabeth A. Hughes, Seok-Jin Kim, Thomas A. Mahler, Sybil S. Niemann, James M. Oldham, Norman L. Stump

**Clinical Lecturers** Peggy A. Fabiani, Lisa L. Maxwell, Sally I. Phillips, Sharon A. Querry, Angel J. Reed, Stephanie L. Schafer, Sandra J. Townsend, Tracy A. West

**Adjunct Clinical Lecturer** Melinda L. Meadows

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.

### Associate of Science Degree

The Indiana University School of Dentistry's associate's degree program in dental hygiene is a full-time program requiring two academic years to complete. It 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 evidenced-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. A list of approved courses is available by contacting the Office of Admissions and Student Affairs at the Indiana University School of Dentistry. A list of approved dental hygiene prerequisite courses at most Indiana colleges and universities can also be accessed at the following Web site: [http://www.iusd.iupui.edu/depts/EDU/sa/admissions\\_information.htm](http://www.iusd.iupui.edu/depts/EDU/sa/admissions_information.htm). Prerequisite courses include one semester each of English composition, chemistry with laboratory, human anatomy, human physiology, 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 grade point average of 2.0 (on a 4.0 scale) and achieve a minimum course grade of 2.0 (on a 4.0 scale) on all prerequisite courses. In addition, applicants must earn a minimum 2.5 grade point average in the combined prerequisite science courses (inorganic chemistry, human anatomy, and human physiology). 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. All required science courses must be completed by the end of the spring semester of the year in which the applicant applies to the program, and preference will be given to students who have completed all required courses by that time. Prerequisite 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 Office of Admissions and Student Affairs at IUSD.

Other admissions requirements include a minimum of eight hours of observation of a practicing dental hygienist in at least two different dental offices, submission of two rating recommendations using prescribed forms, and attendance at a mandatory open house for eligible dental hygiene applicants at IUSD.

All applications and supporting materials are to be submitted by February 1. Applicants who are re-applying must submit a new application using current forms. Applications may be obtained by contacting the dental school's Office of Admissions and Student Affairs or from the IUSD Admissions Web site. Requirements and forms for admission to the IUSD Dental Hygiene Program are specific to this program only and are not accepted 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.

Class size is limited, and there are more qualified applicants than can be accepted each year. Applicants are encouraged to consult with the School of Dentistry's Office of Admissions and Student Affairs or the program director for pre-dental hygiene counseling. 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 IUSD Office of Admissions and Student Affairs. 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.

Admission policies may change after the information in this publication is printed. Potential applicants are advised to consult the Web site of the School of Dentistry Office of Admissions and Student Affairs for the most current and updated admission policies and procedures.

### Tuition and Ancillary Fees

For information about tuition and ancillary fees, including mandatory health insurance coverage, contact the School of Dentistry's Office of Admissions and Student Affairs.

## Core Courses for the Professional Curriculum for Dental Hygienists

**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.

**MICR J210 Microbiology and Immunology (4 cr.)** For prenursing, allied health sciences, and dental hygiene students; others by consent of instructor. Consideration of immunology and host-defense mechanisms, and pathogenic bacteria, viruses, fungi, and parasites in human disease. Laboratory exercises include microbial biology, microscopy, asepsis, pure culture, identification, antimicrobial agents, viral hemagglutination, representative immunological reactions. There are three hours of lecture and two hours of laboratory exercises each week in a 15-week course.

**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.

For more information about this program, consult the School of Dentistry's Bulletin, the IUSD Dental Hygiene Web site, or the Dental Hygiene Program Office.

## Administration

**Dean** Lawrence I. Goldblatt

**Executive Associate Dean** Chris H. Miller

### Associate Deans

James L. McDonald Jr., Dental Education

Chris H. Miller, Academic Affairs and Graduate Education

Margot L. Van Dis, Student Affairs

George P. Willis, Clinical Affairs

Domenick T. Zero, Research

### Chairs

Cecil E. Brown Jr., Department of Endodontics (Acting)

Arden G. Christen, Department of Oral Biology (Acting)

Jeffrey A. Dean, Department of Oral Facial Development (Acting)

David T. Brown, Department of Restorative Dentistry (Acting)

E. Brady Hancock, Department of Periodontics and Allied Dental Programs

Jeffrey D. Bennett, Department of Oral Surgery and Hospital Dentistry

Domenick T. Zero, Department of Preventive and Community Dentistry

Susan L. Zunt, Department of Oral Pathology, Medicine, and Radiology

## Dental Hygiene Faculty

(The following list includes the names of faculty associated with the Dental Hygiene Program. See the School of Dentistry Bulletin for a complete list of the dental faculty.)

Blanchard, Jane L., *Clinical Assistant Professor of Dental Hygiene (M.H.S., Medical University of South Carolina, 1984)*

Coan, Lorinda L., *Clinical Assistant Professor of Dental Hygiene (M.S., Indiana University, 2001)*

Fabiani, Peggy A., *Clinical Lecturer in Dental Hygiene (B.S., Indiana University, 1998)*

Hancock, E. Brady, *Chairperson of Periodontics and Allied Dental Programs; Professor of Periodontics (D.D.S., University of Illinois, 1967)*

Hazelrigg, Charles O., *Clinical Associate Professor of Pediatric Dentistry and of Dental Hygiene (D.D.S., Indiana University, 1970)*

Hudson, Joyce C., *Clinical Assistant Professor of Dental Hygiene (M.S., University of Missouri, 1982)*

Hughes, Elizabeth A., *Clinical Assistant Professor of Dental Hygiene (M.S., Indiana University, 2000)*

Kim, Seok-Jin, *Clinical Assistant Professor of Periodontics (D.D.S., Indiana University, 1996; D.D.S., Seoul National University, South Korea, 1993)*

Larsen, Steven H., *Associate Professor of Microbiology and Immunology, School of Medicine (Ph.D., University of Wisconsin, 1974)*

Mahler, Thomas A., *Clinical Assistant Professor of Dental Hygiene (D.D.S., Indiana University, 1984)*

Mallatt, Mark E., *Clinical Professor of Preventive and Community Dentistry and of Dental Hygiene (D.D.S., Indiana University, 1975)*

Maxwell, Lisa L., *Clinical Lecturer in Dental Hygiene (B.S., Indiana University, 2000)*

Meadows, Melinda L., *Visiting Clinical Lecturer in Dental Hygiene, Oral Facial Development; Adjunct Clinical Lecturer in Dental Hygiene, Periodontics and Allied Dental Programs (B.S., Indiana University, 2000)*

Niemann, Sybil S., *Clinical Assistant Professor of Allied Dental Programs (D.D.S., Indiana University, 1966)*

Oldham, James M., *Clinical Assistant Professor of Dental Hygiene and of Dental Assisting (D.D.S., Indiana University, 1983)*

Olson, Byron L., *Professor of Preventive and Community Dentistry, School of Dentistry; Professor of Biochemistry and Molecular Biology, School of Medicine (Ph.D., Case Western Reserve University, 1970)*

Phillips, Sally I., *Clinical Lecturer in Dental Hygiene (B.S., Indiana University, 1981)*

Querry, Sharon A., *Clinical Lecturer in Dental Hygiene (B.S., Indiana University, 1998)*

Rackley, R. Hunter, Jr., *Assistant Professor of Dental Hygiene (M.H.E., Medical College of Georgia, 1977)*

Reed, Angel J., *Clinical Lecturer in Dental Hygiene (B.S., Indiana University, 1990)*

Rettig, Pamela A., *Clinical Associate Professor of Dental Hygiene (M.S., University of Missouri, 1993)*

Schaaf, Jack E., *Associate Professor of Dental Diagnostic Sciences (D.D.S., Indiana University, 1975)*

Schafer, Stephanie L., *Clinical Lecturer in Dental Hygiene (B.S., Indiana University, 2000)*

Stump, Norman L., *Clinical Assistant Professor of Operative Dentistry, of Dental Hygiene, and of Dental Assisting (D.D.S., Indiana University, 1979)*

Summerlin, Don-John, *Associate Professor of Oral Pathology (D.M.D., University of Alabama, 1985)*

Townsend, Sandra J., *Clinical Lecturer in Dental Hygiene (B.S., Indiana University, 2001)*

West, Tracy A., *Clinical Lecturer in Dental Hygiene (B.S., Indiana University, 1985)*

Williamson, Gail E., *Professor of Dental Diagnostic Sciences (M.S., Indiana University, 1982)*

Young, Nancy A., *Associate Professor and Director of Dental Hygiene (M.Ed., Temple University, 1981)*

Zunt, Susan L., *Chairperson of Oral Pathology, Medicine, and Radiology; Professor of Oral Pathology (D.D.S., Case Western Reserve University, 1977)*