

School of Dentistry Administration

Indiana University School of Dentistry Administration

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Overview

The Indiana University School of Dentistry (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.

IU's dental school is one of the oldest in the nation. It was established as the Indiana Dental College in 1879 and acquired by Indiana University in 1925. It is the only dental school in the state.

The school is located on the campus of Indiana University—Purdue University Indianapolis (IUPUI), adjacent to the Indiana University Medical Center. Clinical facilities in the School of Dentistry are excellent, and patients are drawn from a population area of some 1 million people. The great variety of cases treated provides each student with abundant opportunity to perfect techniques.

The school also maintains dental clinics in Riley and University Hospitals on the IU medical center and at several off-campus sites.

Men and women who have graduated with IU's Doctor of Dental Surgery (D.D.S.) degree and Master of Science in Dentistry (M.S.D.) degree currently are practicing dentistry and pursuing careers in related fields in nearly all of the 50 states and in about 30 other countries. Students may also earn the Ph.D. or the M.S. degree in dentistry and related science fields through IU's University Graduate School.

Indiana University offers a variety of undergraduate programs in dental support fields on the Indianapolis, Fort Wayne, Northwest (Gary), and South Bend campuses. Students interested in undergraduate programs should check with a counselor on the campus they wish to attend for specific requirements, which may vary from the requirements on the Indianapolis campus. Visit the Contact Information page for campus program phone numbers and Web addresses.

This bulletin describes the opportunities available at the Indiana University School of Dentistry in Indianapolis and

outlines the requirements for admission to and completion of its programs.

While every effort is made to provide accurate and current information, Indiana University reserves the right to change without notice statements in the bulletin series concerning rules, policies, fees, curricula, courses, or other matters.

Contact Information

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The IU School of Dentistry Office of Admissions and Student Affairs is open 8 a.m. to 5 p.m., Monday through Friday. The dental school's Web site is <https://www.dentistry.iu.edu>.

Requests for application forms or information about dental education programs should be directed to:

For Dentistry (D.D.S.) and Dental Hygiene (A.S.) degree programs and Dental Assisting certificate program at Indianapolis:

Office of Admissions and Student Affairs, Room 105
Indiana University School of Dentistry
1121 West Michigan Street
Indianapolis, IN 46202-5186
Telephone: (317) 274-8173
Fax: (317) 278-9066
E-mail: ds-stdnt@iupui.edu

For Public Health Dental Hygiene (B.S.) degree program at Indianapolis:

Director of Dental Hygiene
Periodontics and Allied Dental Programs
Indiana University School of Dentistry
1121 West Michigan Street
Indianapolis, IN 46202-5186
Telephone: (317) 274-7801

For M.S.D., M.S., and Ph.D. degree programs at Indianapolis:

Office of Graduate Education and Global Engagement
Indiana University School of Dentistry
1121 West Michigan Street, Room 280B
Indianapolis, IN 46202-5186
Telephone: (317) 274-5348
Fax: (317) 274-7188
E-mail: ds-grad@iupui.edu

For Oral and Maxillofacial Surgery certificate program:

Residency/Education Coordinator
Indiana University School of Dentistry
1121 West Michigan Street
Indianapolis, IN 46202-5186
Telephone: (317) 278-3662; Fax: (317) 278-2243

For information on allied dental programs at other Indiana University campuses contact:

Programs at Fort Wayne:
Director of Dental Hygiene
or
Director of Dental Assisting
or

Director of Dental Laboratory Technology
 Department of Dental Education
 Neff Hall 150
 Indiana University–Purdue University Fort Wayne
 2101 E. Coliseum Boulevard
 Fort Wayne, IN 46805-1499
[Fort Wayne Dental Education Web site](#) Telephone: (260)
 481-6837

For Dental Hygiene degree program at South Bend:
 Director of Dental Education
 Education and Arts Building
 Indiana University South Bend
 1002 South Esther Street
 South Bend, IN 46615
[South Bend Dental Education Web site](#) Telephone: (574)
 520-4158

For Dental Hygiene degree and Dental Assisting certificate
 programs at Gary:
 Director of Dental Education
 Indiana University Northwest
 Dental Education Dunes Medical/Professional Building, room
 1180
 3400 Broadway
 Gary, IN 46408-1197
[Northwest Dental Education Web site](#) Telephone: (219)
 980-4249

Equal Opportunity/Affirmative Action

Indiana University pledges itself to continue its commitment to the achievement of equal opportunity within the university and throughout American society as a whole. In this regard, Indiana University will recruit, hire, promote, educate, and provide services to persons based upon their individual qualifications. Indiana University prohibits discrimination based on arbitrary consideration of such characteristics as age, color, disability, ethnicity, gender, marital status, national origin, race, religion, sexual orientation, or veteran status.

Indiana University shall take affirmative action, positive and extraordinary, to overcome the discriminatory effects of traditional policies and procedures with regard to the disabled, minorities, women, and Vietnam-era veterans. An Office of Equal Opportunity on each campus monitors the university's policies and assists individuals who have questions or problems related to discrimination.

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

- Admission
- Tuition and Fees
- Curriculum
- Student Learning Outcomes

International Dentist Program

The Indiana University International Dentist Program (IDP) offers qualified graduates of foreign dental programs the opportunity to earn the Doctor of Dental Surgery (D.D.S.) degree at Indiana University School of Dentistry. Upon successful completion of a continuing education entrance course and the IDP program, graduates are eligible to take state or regional clinical board examinations to be eligible

for dental licensure and dental practice within the United States.

The IDP is a full-time, daily program that administers its own admissions process and application forms. The program begins in July of each year, and is a minimum of 24 months in length.

After the application is received and successfully processed, qualified applicants are invited for an interview. Selected interviewees will be invited to participate in a multiple-week continuing education course. This course provides an opportunity to review applicant skills and assess qualifications to enter as a third-year dental student. Satisfactory completion of the continuing education course is required for matriculation into the IDP program. Matriculation occurs through the third and fourth years of the D.D.S. program and includes classroom lectures, direct patient care in the general practice group, and departmental rotation followed by community-based clinic work.

Full details about the IDP program and how to apply are available on the [IUSD International Dentist Program](#) Web page.

Admission

- Application Procedure
- Predental Counseling
- Predental Requirements
- International Dentist Program
- Coordinated Curriculum for Doctor of Dental Surgery and Master of Public Health Degrees
- Combined Ph.D./D.D.S. Degree Program Requirements

Application Procedure

Application to the Indiana University School of Dentistry (IUSD) is made through the Associated American Dental Schools Application Service (AADSAS), which is administered through the American Dental Education Association (ADEA). Applicants are encouraged to apply early (late May/early June) when AADSAS opens; the IUSD deadline for application submission is November 1 of each year. Applicants must also take the Dental Admission Test (DAT), which may be taken before or after submission of the application, at Prometric Candidate Contact Centers located throughout the country. Students should take this test only after completing the required chemistry and biology courses. Details concerning the DAT may be obtained by writing the American Dental Association, 211 E. Chicago Avenue, Chicago, IL, 60611; or by visiting the [ADA Web site](#).

Applicant interviews are conducted in September, October, November, January, and February. The prescreening process begins following receipt of the AADSAS application, DAT scores, and the IUSD application fee. Applicants are invited for an interview based upon a comprehensive review of the application. Criteria for admissions include, but are not limited to, overall grade point average, science grade point average, DAT scores, interview results, recommendations, hours of college credit, degrees received, motivation, exploration of dentistry, manual and artistic skills, character, personality, ethics, and background in volunteerism and community service. Applications from all

underrepresented groups are encouraged. Selections are made on an individual basis after review by the Admissions Committee. Applicants are accepted who best demonstrate the academic and personal characteristics for academic success and who best demonstrate the qualities to further the IUSD mission and the dental profession. Applicants are notified of admission no earlier than December 1 of each year.

Predental Counseling

Students who want to discuss their academic programs should arrange appointments with predental advisors on their own campus. Nontraditional applicants or applicants with unusual circumstances may request an appointment with the dental school's Office of Admissions and Student Affairs (see Contact Information).

Predental Requirements

Most students accepted by IUSD attain a bachelor's degree prior to enrollment. The predental collegiate training may be taken at any accredited college or university in the United States. Required courses cannot be taken on a Pass/Fail basis. Special credit for required courses may be accepted if all portions of the course work (i.e., lecture, laboratory) have been properly evaluated and appear on official transcripts. Because details of courses offered in the various accredited colleges may vary, courses must be carefully considered when a program is planned, particularly in the fields of science. All prerequisite science courses, except biochemistry and physiology, require laboratories. Extra work in the areas of biology and chemistry is strongly encouraged.

Prior to matriculation at IUSD, applicants must complete a minimum of 90 semester (or 135 quarter) hours of which no more than 60 hours may be completed at the junior college level. The following predental requirements must be met in order to qualify for admission:

Two semesters or 3 quarters (minimum of 8 semester hours/12 quarter hours) of each of the following:

Biology or zoology, with laboratory
Inorganic chemistry, with laboratory
General physics, with laboratory

One semester or 2 quarters (minimum of 4 semester hours/6 quarter hours) of each of the following:

Organic chemistry, with laboratory
Anatomy, with laboratory

Three semester hours or 4.5 quarter hours of biochemistry and physiology lecture

One semester or one quarter (minimum of 2 semester hours/3 quarter hours) of each of the following:

Introductory psychology
English composition

Courses in cell biology, molecular biology, genetics, solid art, business administration or personal finance, histology, and medical terminology are strongly recommended but not required. All incoming dental students must be familiar with computer usage.

Coordinated Curriculum for Doctor of Dental Surgery and Master of Public Health Degrees

In conjunction with the Richard M. Fairbanks School of Public Health at IUPUI, IUSD offers the option of a dual D.D.S./Master of Public Health (M.P.H.) degree. To learn more about the M.P.H. degree program, visit the School of Public Health's Web site at www.pbhealth.iupui.edu. The curriculum for the dual-degree program is described at this [D.D.S./M.P.H. Coordinated Curriculum](#) Web page.

Combined Ph.D./D.D.S. Degree Program

IUSD offers students the option of pursuing a program that culminates in the awarding of dual doctoral degrees, the Ph.D. and D.D.S. The objective of the Combined Ph.D./D.D.S. Program is to provide a core curriculum that offers a solid scientific base for a career in research and teaching in the dental sciences.

Applicants must fulfill all prerequisite dental requirements for admittance to the D.D.S. program and apply through the Associated American Dental Schools Application Service (AADSAS).

Applicants are required to complete the General Graduate Record Examination (GRE). A minimum GRE percentile score of 600 in either the verbal or quantitative sections is required. Applicants are also required to fill out the university's online application.

The combined Ph.D./D.D.S. Program at Indiana University is eight years in length. More information is available on the [Combined Ph.D./D.D.S. Program](#) Web page.

Tuition and Fees

Tuition fees are paid at the time of registration and are subject to change by action of the Trustees of Indiana University.

Advance payment of \$1,000.00 is required after a student has been accepted. This advance payment is nonrefundable, but it is applicable toward tuition fees.

Tuition for 2013-2014 Academic Year

	Indiana Resident (Per Year)	Nonresident (Per Year)
Doctor of Dental Surgery Degree Program	30,930.48	64,741.44
IU Admission Application	60.00	60.00
Summer Session (IUPUI fees to be determined)		
Doctor of Dental Surgery Degree Program		
—First Year	649.12	1,915.40
—Second Year	811.40	2,394.25
—Third Year	973.68	2,873.10
—Fourth Year	3,894.72	11,492.40

Textbook, Instrument, and Ancillary Fees

Fees are approximate figures and are subject to change. Students with cars will also be assessed a parking fee, and health insurance coverage is an additional fee for students who are not already covered under their own policy. Other potential fees (graduation photos, board exam applications, etc.) are contingent upon the individual plans of each student.

	First Year	Second Year	Third Year	Fourth Year
Dental Students				
Textbooks	1,800.00	1,950.00	700.00	—
Instrument Purchase and Rental	10,752.22	10,812.86	3,847.16	2,917.00
Mandatory Health Insurance	2,868.00	2,868.00	2,868.00	2,868.00
IUPUI R&R (Building) Fee	319.92	319.92	319.92	319.92
National Board Application	—	355.00	—	4,400.00

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Curriculum

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First-Year Curriculum

DENT T501 Critical Analysis of Clinical Problems (3-6 cr.) Small groups of six students and one faculty facilitator meet and read through health care–related paper cases, during which time they identify problems, propose hypotheses, explore past knowledge, identify learning issues to be researched, and subsequently discuss their findings while applying them to the case problem.

DENT T502 Critical Analysis of Clinical Problems (3-6 cr.) Small groups of six students and one faculty facilitator meet and read through health care–related paper cases, during which time they identify problems, propose hypotheses, explore past knowledge, identify learning issues to be researched, and subsequently discuss their findings while applying them to the case problem.

DENT T520 Critical Thinking and Professional Behavior: An Introduction (3.5 cr.) This course is designed to help students think critically about the nature of health care professions and the bioethical and psychosocial dimensions of the doctor-patient relationship. Problem-based, small group learning provides the fundamental means by which

students learn to analyze health care problems from population, behavioral, biomedical, and ethical perspectives.

DENT T530 Molecular Cell Biology (5-10 cr.) Introduces dental students to the basic concepts of cellular and molecular biology. Course examines how cellular activity is regulated, how cells are structured, and how cells achieve homeostasis and interact with each other in multicellular systems. Structured to develop critical thinking skills as well as other knowledge acquisition.

DENT T540 Dental Sciences I, Part I (7 cr.) Introduces the student to normal morphologic and physiologic characteristics of the dento-facial complex and develops a foundation of manual skills and knowledge of dental materials to be further developed in later courses. Prerequisite for all subsequent restorative dentistry courses or modules.

DENT T541 Dental Sciences I, Part II (8-15 cr.) Builds on the skills and knowledge learned in Dental Sciences, Part I and introduces the clinical restorative dental sciences. The foundation of normal oral morphology and physiology is followed by disease processes and the restoration and maintenance of dental health. Heavy emphasis is placed on the development of dental surgical skills. Prerequisite for all clinical restorative dentistry courses.

DENT T542 Dental Sciences I, Part III (1-3 cr.) Provides student an opportunity to observe clinical dentistry and identify associated learning issues and research information to expand knowledge on learning issue(s) of choice.

DENT T551 Systems Approach to Biomedical Sciences I (8-14 cr.) Part I of a two-semester sequence which presents basic science information organized into specific organ systems. Each module is organized to discuss the development, structure, function, pathology, and therapy for each organ system. Critical thinking skills are emphasized.

DENT T561 Orofacial Biology I (5-10 cr.) Growth, development, anatomy, and histology of the human head and neck. Information is related to dental treatment procedures and to clinical cases involving the craniofacial complex.

DENT T562 Orofacial Biology II (4-6 cr.) Basic biological and physiological processes normally occurring in the human mouth. Includes various aspects of the periodontium, tooth structure, dental plaque, and the normal oral microbiota, nutrition, and approaches to the prevention of oral diseases.

DENT T571 Community Based Education I, Part I (.5-3 cr.) This course aims at connecting meaningful community service experiences with academic and personal growth, as well as civic responsibility. Students are required to enroll in the required service learning section and have the opportunity to enroll in the elective service learning, international service learning, and community service sections.

Repeatable for credit; maximum of 12 credits.

DENT T572 Community Based Education I, Part II (.5-3 cr.)

This course aims at connecting meaningful community service experiences with academic and personal growth, as well as civic responsibility. Students are required to enroll in the required service learning section and have the

opportunity to enroll in the elective service learning, international service learning, and community service sections.

Repeatable for credit; maximum of 12 credit hours.

Second-Year Curriculum

DENT T601 Critical Analysis of Clinical Problems (3-6 cr.)

Small groups of six students and one faculty facilitator meet and read through health care-related paper cases, during which time they identify problems, propose hypotheses, explore past knowledge, identify learning issues to be researched, and subsequently discuss their findings while applying them to the case problem.

DENT T602 Critical Analysis of Clinical Problems (3-6 cr.)

Small groups of six students and one faculty facilitator meet and read through health care-related paper cases, during which time they identify problems, propose hypotheses, explore past knowledge, identify learning issues to be researched, and subsequently discuss their findings while applying them to the case problem.

DENT T641 Dental Sciences II, Part I (5-15 cr.)

Introduces the student to clinical disciplines including endodontics, fixed partial prosthodontics, and complete denture prosthodontics. Presents and develops foundations of manual skills and knowledge of dental materials, procedures, and techniques to be further applied in later courses and clinics. Prerequisite for all subsequent restorative dentistry courses and modules.

DENT T642 Dental Sciences II, Part II (5-15 cr.)

Builds on the skills and knowledge learned in Part I and introduces local anesthesia, oral surgery, and periodontics. Fixed partial prosthodontics and complete denture prosthodontics continue from Part I, and heavy emphasis is placed on hand-skills development. Prerequisite for all clinical restorative dentistry courses.

DENT T643 Dental Sciences II, Part III (5-15 cr.)

Completes the series of Dental Sciences II. Removable partial prosthodontics, orthodontics, advanced periodontics, and introduction to clinics are added in this part. After completion, students will apply knowledge and skills learned in the series to the clinical management and appropriate treatment of patients in the clinics. Prerequisite for all clinical restorative dentistry courses.

DENT T651 Systems Approach to Biomedical Sciences II (5-10 cr.)

Part II of a two-semester course which presents basic sciences information organized into specific organ systems. Each module is organized to discuss the development, structure, function, pathology, and therapy for each organ system. Critical thinking skills are emphasized throughout.

DENT T661 Oral Disease and Diagnosis I (6 cr.)

First of a two-part series that continues the concepts of normal form and function of the oral and maxillofacial complex presented earlier in the curriculum. Disease processes that affect this region and their underlying pathophysiology will be discussed as well as diagnosis and prognosis. Diagnosis through imaging techniques will be emphasized.

DENT T662 Oral Disease and Diagnosis II (4-6 cr.)

Second part of a series that continues the concepts of normal form and function of the oral and maxillofacial complex presented earlier in the curriculum. Disease processes and underlying

pathophysiology that affect the region are discussed as well as diagnosis and prognosis. Diagnosis through history and physical examination and principles of treatment planning are emphasized.

DENT T663 Oral Disease and Diagnosis III—Clinical Pathologic Correlation (1.5 cr.)

Designed to integrate the didactic pathology information from Oral Disease and Diagnosis I into the clinical setting. This will be accomplished by clinical case presentation with the student taking responsibility for pathologic description, differential diagnosis, diagnostic tests, appropriate therapy, and prognostic variables.

DENT T671 Community Based Education II, Part I (.5-3 cr.)

This course aims at connecting meaningful community service experiences with academic and personal growth, as well as civic responsibility. Students are required to enroll in the required service learning section and have the opportunity to enroll in the elective service learning, international service learning, and community service sections.

Repeatable for credit; maximum of 12 credit hours.

DENT T672 Community Based Education II, Part II (.5-3 cr.)

This course aims at connecting meaningful community service experiences with academic and personal growth, as well as civic responsibility. Students are required to enroll in the required service learning section and have the opportunity to enroll in the elective service learning, international service learning, and community service sections.

Repeatable for credit; maximum of 12 credit hours.

Third-Year Curriculum

DENT T720 Dental Sciences III, Part I (5-15 cr.)

Continuation of the Dental Sciences course series. Clinically oriented lecture, seminar and group learning modules, application and integration of dental practice principles from previous courses into basic periodontal surgery, pediatric public health, and restorative dentistry topics. Prerequisite for subsequent Dental Sciences courses and modules.

DENT T730 Dental Sciences III, Part II (5-10 cr.)

Continuation of the Dental Sciences course series. Clinically oriented lecture, seminar and group learning modules, application and integration of dental practice principles from previous courses into advanced dental specialty and discipline topics. Prerequisite for subsequent Dental Sciences courses and modules.

DENT T740 Clinical Sciences III, Part I (5-8 cr.)

Clinical treatment of patients in a comprehensive care setting applying the knowledge and skills developed in Dental Sciences I and II.

DENT T750 Clinical Sciences III, Part II (15-20 cr.)

Continuation of the Clinical Sciences course series. Students are provided clinical instruction and practice of comprehensive dental care. Clinical application and integration of the principles of basic and dental sciences through clinical patient management are emphasized.

DENT T771 Community Based Education III, Part I (.5-3 cr.)

This course aims at connecting meaningful community service experiences with academic and personal growth, as well as civic responsibility. Students are required to enroll in the required service learning section and have the opportunity to enroll in the elective service learning, international service learning, and community service sections.

Repeatable for credit; maximum of 12 credit hours.

DENT T772 Community Based Education III, Part II (.5-3 cr.)

This course aims at connecting meaningful community service experiences with academic and personal growth, as well as civic responsibility. Students are required to enroll in the required service learning section and have the opportunity to enroll in the elective service learning, international service learning, and community service sections.

Repeatable for credit; maximum of 12 credit hours.

Fourth-Year Curriculum

DENT T820 Dental Sciences IV, Part I (2-3 cr.) Continuation of the Dental Sciences course series. Lectures, seminars, and small-group learning modules apply and integrate dental jurisprudence, practice management, current dental concepts, and an extramural private practice experience.

DENT T830 Dental Sciences IV, Part II (1.5-3 cr.)

Continuation of the Dental Sciences course series. Lectures, seminars, and small-group learning modules apply and integrate practice management, current dental concepts, and an extramural private practice experience.

DENT T840 Clinical Sciences IV, Part I (16-19 cr.) Clinical treatment of patients in a comprehensive care setting, applying the knowledge and skills developed in Dental Sciences I, II, and III and in Clinical Sciences III, Parts I and II.

DENT T850 Clinical Sciences IV, Part II (16-19 cr.) Clinical treatment of patients in a comprehensive care setting, applying the knowledge and skills developed in Dental Sciences I, II, III, and IV, Part I; Clinical Sciences III, Parts I and II; and Clinical Sciences IV, Part I.

DENT T871 Community Based Education IV, Part I (.5-3 cr.)

This course aims at connecting meaningful community service experiences with academic and personal growth, as well as civic responsibility. Students are required to enroll in the required service learning section and have the opportunity to enroll in the elective service learning, international service learning, and community service sections.

Repeatable for credit; maximum of 12 credit hours.

DENT T872 Community Based Education IV, Part II (.5-3 cr.)

This course aims at connecting meaningful community service experiences with academic and personal growth, as well as civic responsibility. Students are required to enroll in the required service learning section and have the opportunity to enroll in the elective service learning,

international service learning, and community service sections.

Repeatable for credit; maximum of 12 credit hours.

Special Clinics

DENT D500 Clinical Procedures for Irregularly Enrolled Students (.5-4 cr.) Summer, fall, and spring semesters.

DENT D900 Clinical Procedures (12 cr.) Required for students who have not been certified for graduation by the last day of summer registration following the fourth year.

DENT D901 Clinical Procedures (12 cr.) Required for students who have not been certified for graduation by the last day of fall registration following the fourth year.

DENT D902 Clinical Procedures (12 cr.) Required for students who have not been certified for graduation by the last day of spring registration following the fourth year.

Student Learning Outcomes

The Doctor of Dental Surgery degree program is four academic years in length. The curriculum includes 138 core courses and modules that are presented over eight semesters and three summer sessions. All of the courses/modules are mandatory for awarding of the degree, except for the Community Based Education courses which have both required and elective sections. The curriculum supports the attainment of the following list of institutional competencies expected of a general dentist entering the profession:

1. Graduates must be competent in patient assessment, diagnosis, and referral.
2. Graduates must be competent in treatment planning.
3. Graduates must be competent to communicate and collaborate with individuals and groups to prevent oral disease and promote oral and general health in the community.
4. Graduates must be competent in control of pain and anxiety, clinical pharmacology, and management of related problems.
5. Graduates must be competent in the prevention and management of dental and medical emergencies.
6. Graduates must be competent in detection, diagnosis, risk assessment, prevention, and management of dental caries.
7. Graduates must be competent in the diagnosis and restoration of defective teeth to form, function, and esthetics.
8. Graduates must be competent in the replacement of teeth including fixed, removable, and dental implant prosthodontic therapies.
9. Graduates must be competent in the diagnosis and management of periodontal disorders.
10. Graduates must be competent in the prevention, diagnosis, and management of pulpal and periradicular diseases.
11. Graduates must be competent in the diagnosis and management of oral mucosal and osseous disorders.
12. Graduates must be competent to collect and assess diagnostic information to plan for and perform uncomplicated oral surgical procedures.

13. Graduates must be competent to recognize and diagnose malocclusion and space management needs.
14. Graduates must be competent in discerning and managing ethical issues and problems in dental practice.
15. Graduates must be competent in the understanding and application of the appropriate codes, rules, laws, and regulations that govern dental practice.
16. Graduates must be competent in behavioral patient management and interpersonal skills.
17. Graduates must be competent in understanding the fundamental elements of managing a dental practice.
18. Graduates must be competent in performing and supervising infection control procedures to prevent transmission of infectious diseases to patients, the dentist, the staff, and dental laboratory technicians.
19. Graduates must be competent in providing evidence-based patient care in which they access, critically evaluate, and communicate scientific and lay literature, incorporating efficacious procedures with consideration of patient needs and preferences.
20. Graduates must have the ability to recognize the role of lifelong learning and self-assessment to maintain competency.

Allied Dental Programs

- Dental Hygiene
- Dental Assisting

Dental Hygiene

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

- Student Learning Outcomes
- Admission
- Tuition and Fees
- Curriculum
- Course Descriptions

Bachelor of Science Degree

- Overview
- Student Learning Outcomes
- Admission
- Tuition
- Core Courses

Associate of Science Admission

Required prerequisite courses may be taken at any accredited college or university if they are listed as approved courses by the [Office of Admissions and Student Affairs](#) at the Indiana University School of Dentistry. For a full list of prerequisite courses, see the [Associate Degree in Dental](#)

[Hygiene Admissions web site](#). 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 2.5 (on a 4.0 scale) in 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. All prerequisite courses must be completed by the end of the spring semester of the year in which the student wishes to enter the program. 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 IUSD Office of Admissions and Student Affairs.

All candidates applying for admission must provide documentation that they have recently completed the prescribed number of hours 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 Web site](#) or from the Office of Admissions and Student Affairs. All eligible candidates will also be asked either to attend an in-house dental hygiene candidates' orientation at the IU School of Dentistry or to complete a dental hygiene candidates' online orientation prior to being considered for admission.

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. (See Contact Information for a list of dental hygiene programs offered on other campuses.) All potential applicants are advised to consult the School of Dentistry's Office of Admissions and Student Affairs or its Web site for updates or changes in dental hygiene admissions policies that may occur after publication of this bulletin.

Class size is limited, and there are more qualified applicants than can be accepted each year. Applicants are encouraged to consult with the Office of Admissions and Student Affairs 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 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.

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Associate of Science Tuition and Fees

Tuition and fees are paid at the time of registration and are subject to change by action of the Trustees of Indiana University.

Students applying for admission to the School of Dentistry dental hygiene program are required to apply online through the American Dental Education Association's [Dental Hygiene Centralized Application Services](#) (DHCAS). See the [DHCAS fee program page](#) to learn more about the application fee and fee waivers for eligible applicants. Applicants who are not already IUPUI students must also apply to IUPUI. The application fee for admission to IUPUI is \$62.50.

Tuition for 2013-2014 Academic Year

	Indiana Resident(Per Year)	Nonresident (Per Year)
First Year	7,232.96	26,660.48
Summer Session	1,808.24	6,665.12
Second Year	6,974.64	25,708.32
Textbook, Instrument, and Ancillary Fees		
	First Year	Second Year
Textbooks/Instructional Media	1,150.00	605.00
Instrument Purchase and Rental	1,121.22	740.00
Laptop Computer	1,500.00	
Uniforms	150.00	
Student American Dental Hygienists' Association Dues	65.00	65.00
National Board Application		265.00
IUPUI General Fee	686.10	686.10
IUPUI Repair and Rehabilitation (Building) Fee	319.92	319.92

Tuition and all fees are subject to change. Students with cars will also be assessed a parking fee, and health insurance coverage is an additional fee for students who are not already covered under their own policy. Other potential fees (graduation photos, state or regional board exam applications, etc.) are contingent upon the individual plans of each student.

Associate of Science Curriculum

Pre-Dental Hygiene Course Work

Full details about pre-dental hygiene courses, including required college courses, in preparation for the two-year Associate of Science degree program on the Indianapolis campus are posted on the School of Dentistry's [Associate Degree in Dental Hygiene Admissions Criteria web site](#).

Dental Hygiene Program, Year 1

First Semester

- H204 Periodontics
- H206 General Pathology I
- H211 Head and Neck Anatomy
- H214 Oral Anatomy
- H216 Chemistry and Nutrition
- H218 Fundamentals of Dental Hygiene
- H303 Radiology

Second Semester

- H205 Medical and Dental Emergencies
- H207 General Pathology II
- H215 Pharmacology and Therapeutics
- H217 Preventive Dentistry
- H219 Clinical Practice I
- H308 Dental Materials
- H321 Periodontics

Summer Session

- H221 Clinical Dental Hygiene Procedures
- H250 Local Anesthesia and Pain Control
- H252 Introduction to Evidence-Based Dental Hygiene Care
- H305 Radiology Clinic I

Dental Hygiene Program, Year 2

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)
- PSY-B 305 Statistics* or STAT 30100 Elementary Statistical Methods I**

*See course listing at [IUPUI Department of Psychology](#)

**See course listing at [IUPUI Department of Mathematical Sciences](#)

Associate of Science Course Descriptions

In addition to the courses listed below, two courses in statistics are offered by IUPUI instead of the School of Dentistry. For information about PSY B305 Statistics, see

course listings at the [IUPUI Department of Psychology](#). For information about STAT 30100 Elementary Statistical Methods I, see course listings at the [IUPUI Department of Mathematical Sciences](#).

DHYG 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.

DHYG 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.

DHYG H206 General Pathology I (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.

DHYG H207 General Pathology II (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.

DHYG-H 211 Head and Neck Anatomy (2 cr.) A detailed study of the anatomy of the head and neck. Some attention is given to oral embryology and the growth of tooth structure.

DHYG 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.

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

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

DHYG 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.

DHYG 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.

DHYG 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.

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

DHYG-H 250 Local Anesthesia and Pain Control (2 cr.) This course addresses coverage of pain and anxiety

management for conscious dental clients. The indications, contraindications, and pharmacology of topical anesthesia, local anesthesia, and nitrous oxide and oxygen sedation used in dentistry will be discussed. Local anesthesia techniques and the administration of nitrous oxide and oxygen sedation will be studied.

DHYG H252 Introduction to Evidence-Based Dental Hygiene Care (1 cr.) This course will provide foundational knowledge for the dental hygiene student 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.

DHYG H301 Clinical Practice II (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.

DHYG H302 Clinical Practice III (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.

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

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

DHYG H305 Radiology Clinic I (1 cr.) Clinical application of intraoral and extraoral radiographs.

DHYG H306 Radiology Clinic II (1 cr.) Clinical application of intraoral and extraoral radiographs.

DHYG H307 Radiology Clinic III (1 cr.) Clinical application of intraoral and extraoral radiographs.

DHYG H308 Dental Materials: First Year (2 cr.) Composition and physical and chemical properties of materials used in dentistry.

DHYG 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.

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

DHYG 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.

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

DHYG 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 Overview

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.

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Bachelor of Science Admission

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.

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Bachelor of Science Tuition

Tuition is paid at the time of registration and is subject to change by action of the Trustees of Indiana University.

All students applying for admission to the School of Dentistry are required to pay an application fee of \$62.50. This fee is paid only once, is nonrefundable, and is not applied to other fees. Enrolled students also pay an IUPUI general fee of \$343.00 per semester and an IUPUI Repair and Rehabilitation (Building) fee of \$6.66 per credit hour up to a maximum of \$79.92 per semester.

Tuition for 2013-2014 Academic Year

	Indiana Resident (Per Year)	Nonresident (Per Year)
Bachelor's Degree in Public Health Dental Hygiene	258.32 per credit hour	952.16 per credit hour

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Bachelor of Science Core Courses

Consult the [dental hygiene program Web site](#) for the most current information on the dental hygiene bachelor's degree program or contact the IUSD dental hygiene program director.

Statistics: Recommended courses include STAT 30100 Elementary Statistical Methods (3 cr.) or PSY B305 Statistics (3 cr.).

STAT 30100 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 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.

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 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 online 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 online component.

Associate of Science Student Learning Outcomes

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.

Bachelor of Science Student Learning Outcomes

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.

Dental Assisting

- Overview
- Student Learning Outcomes
- Admission (Campus Program)
- Admission (Distance Learning Program)
- Tuition and Fees
- Course Descriptions

Admission (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.

Applicants will submit an online application located on the [dental assisting Web page](#). Applications to the dental assisting program must include official transcripts from all high schools and all postsecondary 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 in the dental assisting program.

2. 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. Refer to the dental assisting Web page for more information about courses that are accepted in the English and Science categories.
3. Applicants must observe a chairside dental assistant in a dental office for a minimum of eight hours. To verify this requirement has been completed, applicants must 1) fill out an IUSD Dental Assisting Dental Office Observation form, signed by the supervising dentist in the dental office where the observation took place; and 2) ask the dentist to write a note of verification on the dental office's letterhead. The form is accessible from the dental assisting Web page. Applicants must submit the form and the letter, along with their transcripts, to the IUSD Office of Admissions and Student Affairs by the application deadline. Refer to the dental assisting Web page for more information.
4. Individuals for whom English is a secondary language must demonstrate proficiency in English before being admitted to IUPUI. Several testing options are available. For more information, see the Undergraduate English Language Requirements on the IUPUI [Office of International Admissions Web site](#). Test results will be used as part of the dental assisting admissions review, and the dental assisting admissions committee may also require an interview or writing exercise to determine the applicant's English skills.

Applications will be accepted by the IUSD Office of Admissions and Student Affairs from January 1 to June 1 prior to the fall semester the applicant wishes to enter the program. Applicants should send the completed observation form and all official transcripts to the Office of Admissions and Student Affairs, Indiana University School of Dentistry, 1121 W. Michigan Street, DS105, 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.

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Overview

Indiana University's Indianapolis-based dental assisting program is one year in length (two semesters) 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 full-time distance-learning program in which students complete most of their nonclinical courses online while receiving clinical experience in community dental offices.

Graduates can continue their education at IUPUI by pursuing one of several bachelor's degrees that accept the dental assisting course credits. Contact the [Dental Assisting Office](#) for more information.

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 currently limited to 12 students per year.

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 at least 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.

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Tuition and Fees

Tuition and fees are paid at the time of registration and are subject to change by action of the Trustees of Indiana University.

All students applying for admission to the School of Dentistry are required to pay an Application Fee of \$60.00. This fee is paid only once, is nonrefundable, and is not applied to other fees.

Tuition for 2013-2014 Academic Year

	Indiana Resident (Per Year)	Nonresident (Per Year)
Dental Assisting Certificate Program	8,007.92	29,516.96

Textbook, Instrument, and Ancillary Fees

Textbooks	832.00
Instrument Purchase and Rental	560.00
Uniforms	150.00
IUPUI Fees: General (686.10) plus Repair and Rehabilitation (319.92)	1,006.02
National Board Application	550.00

Students with cars will also be assessed a parking fee, and health insurance coverage is an additional fee for students who are not already covered under their own policy. Other potential fees (graduation photos, state or regional board exam applications, etc.) are contingent upon the individual plans of each student.

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Admission (Distance Learning Program)

Applicants should follow admission requirements 1 through 4 for the campus program as well as requirements 5 through 7 listed below:

5. 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.

6. Applicants must meet the university's technology requirements:

- Office XP or higher software
- Either Internet access at Explorer IE6 or higher DSL or cable modem access

7. Applicants must be able to travel to the Indiana University School of Dentistry when necessary.

Applications will be accepted by the IUSD Office of Admissions and Student Affairs from January 1 to June 1 prior to the fall semester the applicant wishes to enter the program. Applicants should send the completed observation form and all official transcripts to the Office of Admissions and Student Affairs, Indiana University School of Dentistry, 1121 W. Michigan Street, DS105, 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 page](#) for updates or changes in dental assisting admissions policies that may occur after publication of this document.

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Course Descriptions

Required Courses

DAST 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.

DAST A111 Oral Pathology, Physiology, Anatomy I (2 cr.)

A111 is an overview of the structures, functions, and selected diseases of the human body, including basic cells, tissues, organs, and organ systems.

DAST 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.

DAST A113 Oral Pathology, Physiology, Anatomy II (1 cr.)

A113 is an introduction to diseases of the oral cavity and its related structures.

DAST 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.

DAST 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.

DAST A131 Dental Materials I (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.

DAST A132 Dental Materials II (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.

DAST A141 Preventive Dentistry and Nutrition (2-3 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.

DAST 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. (Note: Course has on occasion been designated by the number DAST A115.)

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

DAST 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.

DAST A171 Clinical Science I (4-6 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.

DAST A172 Clinical Science II (3-6 cr.) Clinical chairside experience, including an extramural assignment; allows for refining of student skills. A seminar provides students opportunities to share experiences.

DAST 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.

Elective Courses

DAST 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.

DAST 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.

Student Learning Outcomes

Dental Assisting Program Goals and Outcomes Assessments

The certificate program will provide a quality education to prepare dental assisting graduates to:

1. be proficient in applying knowledge of the basic behavioral and dental sciences to clinical practice in assessing and performing dental assisting procedures.

2. communicate effectively with other health care professionals in coordinating and providing patient care including the use of technology and practice management techniques.
3. apply problem-solving and decision-making skills when assisting with dental health services under the direction and supervision of the dentist.
4. conduct themselves with the highest levels of professionalism, ethics, and personal integrity to the practice of compassionate, patient-centered dentistry.
5. internalize the importance of lifelong learning and understand the importance of remaining current as the dental health care delivery system changes.
6. acquire knowledge and skills to promote and participate in preventive dental care and support oral health through promotion of total health.
7. be knowledgeable of and comply with state and federal laws governing the practice of dentistry and dental assisting.
8. achieve success on all national exams, certifications, and licensures.
9. participate in leadership opportunities, professional organizations, and service to the community.

Graduate Programs

The School of Dentistry's graduate degree and certificate programs begin during the first week of July, except for the M.S. and Ph.D. programs, which begin in August with the fall semester.

The Master of Science in Dentistry (M.S.D.) program is intended primarily for students who have received the doctorate in dentistry and who wish to go on to obtain an adequate background in one of the various disciplines of dentistry or of the allied basic sciences in order to broaden their dental background or to complete the academic requirements for specialty boards. Under special circumstances, the M.S.D. may be conferred upon outstanding individuals not holding the D.D.S. (or equivalent degree) who have demonstrated ability in dental research and education and who give good evidence of continuing in these fields.

Students may register in IU's University Graduate School and work toward the M.S. degree in dental materials or preventive dentistry or the Ph.D. degree in dental science. (See Fields of Study.)

In general, students who wish to practice or teach a clinical subject are encouraged to work toward the M.S.D., while those more interested in the basic science courses would be advised to complete the requirements for the M.S. degree. The Ph.D. program in dental science is designed specifically for individuals who want to pursue a career in dental research and/or education.

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Fields of Study

In addition to the general requirements for the degree program as described in the following pages, the various departments may specify additional didactic or clinical requirements in order for students to qualify for a major or minor in that field. Details regarding specific course requirements for individual graduate (degree) and postgraduate (certificate) programs are available from the School of Dentistry. Contact the Office of Graduate Education and Global Engagement (for the M.S., M.S.D., and Ph.D. programs) and the Department of Oral Surgery and Hospital Dentistry for the oral and maxillofacial surgery residency (see Contact Information).

Dental Materials

Available as an M.S. or M.S.D. degree program or as a track offered in the Ph.D. in Dental Science degree program. Minor concentration: operative dentistry or prosthodontics (for M.S.D. degree); chemistry, material science engineering, or mechanical engineering (for M.S. degree). For details about the Ph.D. dental biomaterials track, see the Dental Biomaterials Track Core Curriculum.

Core Competencies

Graduates of the two-year postdoctoral program in dental materials will achieve core competencies in Materials Knowledge, Critical Thinking, and Effective Communication.

Materials Knowledge

The graduate will be prepared to:

1. describe major classes of dental biomaterials used in clinical dentistry;
2. explain the differences in the chemical nature of the major classes of materials;
3. recognize the effects of chemical nature on the mechanical behavior of materials; and
4. describe the relationship between material characteristics and clinical performance of dental biomaterials.

Critical Thinking

The graduate will be prepared to:

1. identify the physical and chemical principles of major material testing methods;
2. select and justify appropriate testing methods for major classes of dental biomaterials; and
3. formulate hypotheses and design the necessary experiments for a given material evaluation scenario.

Effective Communication

The graduate will be prepared to:

1. present research methods and results correctly in oral and written reports;
2. provide evidence-based arguments on research findings in oral and written reports; and
3. provide suggestions on dental biomaterial selection based on current dental literature.

Dental Science

Ph.D. degree program offering tracks in preventive dentistry, oral biology, and dental biomaterials. For details about the

Ph.D. degree, see the Doctor of Philosophy (Ph.D.) Degree in Dental Science section.

Core Competencies

The graduate of the Ph.D. program in dental science will be prepared to:

1. demonstrate an in-depth understanding of the biology of the oral cavity;
2. demonstrate the principles/mechanisms pertinent to human physiology and disease;
3. demonstrate competency in performing complex scientific literature searches;
4. write a detailed grant proposal;
5. express scientific material, including original research data, in both oral and written form;
6. demonstrate skills in critical thinking; and
7. plan and undertake independent research.

Endodontics

M.S.D. degree program. Minor concentration: oral pathology.

Core Competencies

Students who successfully complete the two-year postdoctoral endodontics program will be able to achieve proficiency in the following areas of clinical science:

1. diagnosis, treatment planning, and prognosis;
2. evidenced-based nonsurgical and surgical treatment and retreatment;
3. outcome evaluation;
4. radiography and other diagnostic imaging technologies;
5. management of endodontic treatment of medically compromised patients;
6. emergency treatment for endodontic conditions;
7. management of patients with orofacial pain and anxiety;
8. preparation of space for intraradicular restorations and cores in endodontically treated teeth;
9. use of enhanced magnification technologies; and
10. communications with patients and health care professionals.

Students will also be prepared to achieve competency in a variety of endodontic techniques, including, for example: vital pulp management, endodontic management of traumatic dental injuries, and endodontic management of developing permanent teeth.

The postdoctoral endodontic program will also prepare the graduate to conduct all phases of a research project, including protocol development, review of literature, management of all stages of the study, and preparation of a manuscript for publication.

Maxillofacial Prosthetics

M.S.D. program. Maxillofacial prosthetics is a track of the prosthodontics program (listed below) and is hospital-based.

Core Competencies

Students who successfully complete the four-year postdoctoral program in maxillofacial prosthetics will demonstrate competency in the following areas:

Clinical Skills and Knowledge

The successful graduate will be able to:

1. diagnose, treatment plan, and rehabilitate patients with defects of the maxilla, mandible, and facial structures using biocompatible substitutes;
2. be competent in a wide variety of treatment modalities used in the pre-prosthetic, prosthetic, and post-prosthetic management and treatment of patients with defects of the maxilla, mandible, and facial structures;
3. be competent in all aspects of the utilization of dental implants to restore intraoral and extraoral defects;
4. be competent in the prosthetic management of both radiation therapy and chemotherapy patients;
5. be competent in the laboratory procedures associated with the treatment of patients with defects of the maxilla, mandible, and facial structures; and
6. describe the relationship between material characteristics and clinical performance of dental biomaterials.

Critical Thinking

The successful graduate will be able to:

1. draw upon evidence-based research to select and justify appropriate treatment methods and biomaterials; and
2. formulate hypotheses and design the necessary experiments for a given procedure or material evaluation scenario.

Effective Communication

The successful graduate will be able to:

1. present appropriate treatment plans to patients and referring dentists correctly in oral and written reports;
2. provide evidence-based agreements on research findings in oral and written reports; and
3. provide patient education and oral hygiene instructions to patients based upon clinical findings and upon current maxillofacial prosthetic literature.

Operative Dentistry

M.S.D. degree program. Minor concentration: dental materials or preventive dentistry.

Core Competencies

Graduates of the two-year postdoctoral program in operative dentistry will be prepared to:

1. manage caries risk patients based on Caries Management by Risk Assessment (CAMBRA);
2. discuss current direct and indirect dental restorative materials (gold, dental amalgam, ceramics, glass ionomer cement, and resin-matrix composite) including associated setting reactions, physical properties, and indications and contraindications for their clinical use;
3. demonstrate clinical proficiency when performing routine and advanced restorative procedures;
4. demonstrate a broad knowledge base of dental restorative materials and procedures;
5. demonstrate knowledge of current restorative dentistry scientific literature;

6. develop and present evidence-based restorative dentistry lectures; and
7. develop a research protocol and perform controlled dental research.

Oral and Maxillofacial Surgery

Four-year hospital-based postgraduate residency leading to a certificate in the specialty. For application forms, admission requirements, and other information about this program, contact the School of Dentistry's Department of Oral Surgery and Hospital Dentistry (see Contact Information).

Core Competencies

Residents who complete the four-year oral and maxillofacial residency will be prepared to:

1. demonstrate proficiency in the core procedures, treatments, and surgical techniques available to oral and maxillofacial surgeons;
2. demonstrate familiarity with the full range of procedures, treatments, and surgical techniques available to oral and maxillofacial surgeons
3. demonstrate competency in the medical management of the surgical patient, including the ability to adequately perform a preoperative assessment;
4. demonstrate proficiency in the full range of anesthetic techniques available to oral and maxillofacial surgeons;
5. manage medical emergencies;
6. demonstrate familiarity with and an understanding of relevant literature as well as an ability to apply critical thinking to their reading; and
7. participate in scholarly activity, including the ability to develop a research project, write a manuscript, and give scientific and/or case study presentations.

Orthodontics

M.S.D. degree program. Minor concentration: dental materials, oral pathology, dental education, or life sciences.

Core Competencies

Students who successfully complete the two-year postdoctoral orthodontics program will demonstrate competency in the following areas:

Clinical Skills and Knowledge

The graduate will be able to:

1. correctly identify dental and skeletal problems and discrepancies that contribute to malocclusion;
2. correctly classify malocclusion;
3. be competent in selecting, placing, and activating appropriate appliances to treat malocclusion;
4. describe the relationship between material characteristics and clinical performance of orthodontic biomaterials;
5. explain the force load that appliances place on the dentition;
6. use patient management software and imaging software correctly;
7. identify the need and timing of interdisciplinary care; and
8. identify the effects of growth and development on malocclusion.

Critical Thinking

The graduate will be able to:

1. draw upon evidence-based research to select and justify appropriate treatment methods and biomaterials; and
2. formulate a hypothesis and design methods to solve a problem.

Effective Communication

The graduate will be able to:

1. effectively present appropriate treatment plans in written and oral formats to patients and referring dentists;
2. explain research results correctly in oral and written formats; and
3. provide appropriate patient education concerning the need for appliances, the care of appliances, and the effect of diet and hygiene on the dentition.

Pediatric Dentistry

M.S.D. degree program (hospital-based). Minor concentration: child psychology, dental materials, education, genetics, oral pathology, preventive dentistry, radiology, or speech pathology.

Core Competencies

Students who successfully complete the two-year postdoctoral pediatric dentistry program will demonstrate competency in the following areas:

Clinical Skills and Knowledge

The successful graduate will be able to:

1. diagnose and provide dental treatment to the child and adolescent patient;
2. manage the dental patient with the use of non-pharmacologic and pharmacologic management techniques; and
3. provide comprehensive management of the disabled patient.

Critical Thinking

The successful graduate will be able to:

1. draw upon evidence-based literature to select and justify appropriate treatment;
2. learn the dental care systems, both public and private sectors; and
3. successfully complete and present research relevant to the specialty of pediatric dentistry.

Effective Communication

The successful graduate will be able to:

1. present appropriate treatment plans to patients and family members;
2. present accurate oral and written reports to referring physicians and dentists;
3. draw upon the latest evidence-based literature to provide education and oral hygiene instructions to patients; and

4. interpret and present the findings of medical and laboratory reports.

Periodontics

M.S.D. degree program. Minor concentration: oral pathology.

Core Competencies

Students who successfully complete the three-year postdoctoral periodontics program will demonstrate competency in the following areas:

Clinical Skills and Knowledge

The successful graduate will be able to:

1. diagnose and treat diseases affecting the periodontium;
2. demonstrate competency in a wide variety of surgical techniques used in treatment of periodontal diseases;
3. demonstrate competency in all aspects of surgical placement of dental implants including implant site development; and
4. describe the relationship between material characteristics and clinical performance of dental biomaterials.

Critical Thinking

The successful graduate will be able to:

1. draw upon evidence-based research to select and justify appropriate treatment methods and biomaterials; and
2. formulate hypotheses and design the necessary experiments for a given procedure or material evaluation scenario.

Effective Communication

The successful graduate will be able to:

1. present appropriate treatment plans to patients and referring dentists correctly in oral and written reports;
2. provide evidence-based arguments on research findings in oral and written reports; and
3. provide patient education and oral hygiene instructions to patients based on clinical findings and current periodontal literature.

Research

The postdoctoral periodontics program will also prepare the graduate to conduct all phases of a research project, including protocol development, review of literature, management of all stages of the study, and preparation of a manuscript for publication.

Preventive Dentistry

Available as an M.S. or M.S.D. degree program or as a track offered in the Ph.D. in Dental Science degree program. Minor concentration: life sciences, operative dentistry, microbiology, or public health (for M.S. and M.S.D. degree). For details about the Ph.D. preventive dentistry track, see the Preventive Dentistry Track Core Curriculum.

Core Competencies

Graduates of the preventive dentistry program will be able to define terms and explain basic principles, concepts, and theories related to cariology. They will be prepared to:

1. describe the dental caries process in detail;
2. describe and contrast the interaction of the etiological factors associated with dental caries;
3. distinguish and assess the different presentations of dental caries;
4. recognize the epidemiology of dental caries;
5. discriminate populations at high risk for dental caries;
6. analyze the external and internal risk determinants of dental caries;
7. compare and contrast the different methodologies utilized for caries detection;
8. demonstrate diagnosis of dental caries;
9. assess caries risk status;
10. assess salivary flow measurements, buffering capacity, and management approaches for patients with low salivary flow;
11. compare and contrast some of the different strategies utilized for caries management;
12. discriminate the therapeutics used in caries management;
13. compare and contrast the use of sealants based on risk assessment, for individuals and populations;
14. support the values of prevention, evaluation, and reevaluation;
15. develop an oral health plan to be incorporated by a health professional team;
16. develop a community health plan;
17. summarize the basic principles on developing patient education plans;
18. critically review scientific methodology; and
19. recognize the different methodologies and techniques related to caries research.

Prosthodontics

M.S.D. degree program. Minor concentration: dental materials.

Core Competencies

Students who successfully complete the three-year postdoctoral program in prosthodontics will demonstrate competency in the following areas:

Clinical Skills and Knowledge

The successful graduate will be able to:

1. diagnose, treatment plan, and rehabilitate dentate, partially edentulous, and completely edentulous patients having clinical conditions associated with missing or deficient teeth and/or oral and maxillofacial tissues using biocompatible substitutes;
2. be competent in a wide variety of treatment modalities utilized in the treatment and/or rehabilitation of dentate, partially edentulous, and completely edentulous patients;
3. be competent in all aspects of the restoration of dental implants;
4. be competent in all aspects of occlusion and the prosthodontic management of TMD/TMJ disorders and/or orofacial pain;
5. be competent in the laboratory procedures associated with the treatment of complete edentulism, partial edentulism, and dentate patients; and

6. describe the relationship between material characteristics and clinical performance of dental biomaterials.

Critical Thinking

The successful graduate will be able to:

1. draw upon evidence-based research to select and justify appropriate treatment methods and biomaterials; and
2. formulate hypotheses and design the necessary experiments for a given procedure or material evaluation scenario.

Effective Communication

The successful graduate will be able to:

1. present appropriate treatment plans to patients and referring dentists in oral and written reports;
2. provide evidence-based agreements on research findings in oral and written reports; and
3. provide patient education and oral hygiene instructions to patients based upon clinical findings and upon current prosthodontic literature.

Master's Degrees

Master of Science (M.S.) and Master of Science in Dentistry (M.S.D.)

- Admission
- Tuition and Fees
- Faculty Advisory/Research Committees
- Degree Requirements

Admission

Only students who have a minimum cumulative grade point average of 3.0 (on a scale of 4.0) will be considered for admission, unless, under exceptional circumstances, the prospective student can provide evidence that he or she is capable of successfully completing the graduate dental program. Application forms must be accompanied by transcripts of undergraduate and professional school work together with such additional materials as may serve to determine eligibility and ability to satisfactorily pursue an advanced course of study. Letters of support attesting to the candidate's academic background, professional experience, and character should be requested from at least two individuals who have direct knowledge of the candidate's potential to do graduate-level work. To request application information for one of the M.S. or M.S.D. programs, contact the School of Dentistry's Office of Graduate Education and Global Engagement (see Contact Information).

Deadline dates for completed applications vary among the individual graduate programs. In addition, several of the individual graduate programs participate in the Postdoctoral Application Support Service (PASS¹) and the Postdoctoral Dental Matching Program (Match²), two national services designed to help applicants obtain positions in first-year postdoctoral programs of their choice, as well as to help the programs obtain applicants of their choice. Candidates must register in these services if the program is a participant. For

applications for the 2014-2015 academic year, three IU graduate programs are participating in both PASS and Match: orthodontics, pediatric dentistry, and oral and maxillofacial surgery. The endodontics and prosthodontics graduate programs are participating in PASS. Candidates should contact the dental school's Office of Graduate Education and Global Engagement or the appropriate program director to obtain more information about application deadlines, national application services, and other details related to the application process.

1 [Postdoctoral Application Support Service \(PASS\)](#), offered by the American Dental Education Association.

2 [Postdoctoral Dental Matching Program \(Match\)](#), administered by National Matching Services, Inc.

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Tuition and Fees

Tuition and fees are paid at the time of registration and are subject to change by action of the Trustees of Indiana University.

All students applying for admission to the School of Dentistry are required to pay an Application Fee of \$60.00. This fee is paid only once, is nonrefundable, and is not applied to other fees.

Tuition for 2013-2014 Academic Year

	Indiana Resident (Per Year)	Nonresident (Per Year)
Master's Degree		
Programs (excluding hospital residencies)		
First Two Years	30,930.48	64,741.44
After Second Year	324.56 per credit hour	957.70 per credit hour
Residency Programs		
Pediatric Dentistry ¹ and Maxillofacial		
Prosthetics Residencies		
First Two Years	30,930.48	30,930.48
After Second Year	324.56 per credit hour	324.56 per credit hour
Oral and Maxillofacial Surgery Residency (certificate program)	324.56 per credit hour	324.56 per credit hour

Ancillary Fees

Estimates of ancillary fees are listed by program:

Dental Materials (M.S. degree)

- General Fee, 6 or fewer credit hours per semester: \$200.00 per semester; 7 or more credit hours per semester: \$343.05 per semester
- Repair and Rehabilitation (R&R) Building Fee: \$13.33 per credit hour up to a maximum of \$159.96 per semester

Endodontics

- Instrument Rental, \$2,832.70 per calendar year
- R&R Building Fee: \$319.92 per year

Operative Dentistry

- Instruments and Computer: \$4,532.00
- Instrument Rental: \$2,832.70 per calendar year
- R&R Building Fee: \$319.92 per year

Oral and Maxillofacial Surgery (certificate program)

- General Fee: \$200.00 per semester
- R&R Building Fee: \$13.33 per credit hour

Orthodontics

- Instruments and Computer: \$2,180.81
- Instrument Rental: \$2,832.70 per calendar year
- R&R Building Fee: \$319.92 per year

Pediatric Dentistry

- Instruments: \$1,403.40
- R&R Building Fee: \$319.92 per year

Periodontics

- Instruments and Computer: \$2,518.62
- Instrument Rental: \$2,832.70 per calendar year
- Camera: \$1,500.00
- R&R Building Fee: \$319.92 per year

Preventive Dentistry (M.S.D. degree)

- Computer: \$1,600.00
- R&R Building Fee: \$319.92 per year

Preventive Dentistry (M.S. degree)

- General Fee, 6 or fewer credit hours per semester: \$200.00 per semester; 7 or more credit hours per semester: \$343.05 per semester
- R&R Building Fee: \$13.33 per credit hour up to a maximum of \$159.96 per semester

Prosthodontics

- Instruments, Camera and Computer, \$13,547.57
- Instrument Rental, \$2,832.70 per calendar year
- R&R Building Fee: \$319.92 per year

For the summer term, all graduate students are assessed a General Fee (6 or fewer credit hours, \$200.00; 7 or more credit hours, \$343.05) and an R&R Building Fee (\$159.96).

1 Advance payment of \$1,000.00 is required after a student has been accepted. This advance payment is nonrefundable, but it is applicable toward tuition fees.

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Faculty Advisory/Research Committees

Each degree candidate is assigned to a faculty advisory committee. The committee is chaired by the chairperson of the candidate's major subject (or the chairperson's designee) and is composed of the chair and four or more additional members of the IU School of Dentistry, IU, or Purdue University graduate faculty, including at least two from the student's major department, one from each minor, and one from outside the student's program of study, if deemed appropriate. The functions of the advisory committee are to (1) approve the student's program of study; (2) counsel the student until the qualifying (oral and written comprehensive) examination is passed; and (3) compose and grade the qualifying examination.

At Indiana University, students have traditionally submitted a research thesis to complete their M.S.D. degree requirements. Requirements were modified in February 2004 to give program directors the option of permitting M.S.D. degree candidates to prepare their research either as a thesis, or in the form of a manuscript that must subsequently be submitted for publication in a refereed journal. The student's program director determines which option the student will pursue.

Following successful completion of the qualifying examination, the student will be permitted to complete the thesis or journal manuscript research under the direction of his or her research committee. The research committee may or may not have the same composition as the faculty advisory committee. The research committee is chaired by the faculty member who directs the thesis or journal manuscript research (chosen by the student with the consent of the chair of the faculty advisory committee) and is composed of the chairperson and four or more additional members of the IU School of Dentistry, IU, or Purdue University graduate faculty with at least two from the student's major department and one from each minor department. The committee should be selected from the members of the graduate faculty who are best qualified to assist the student in conducting the thesis or journal manuscript research. The research committee is responsible for supervising the research, guiding the preparation of the thesis or journal manuscript, and conducting and approving the thesis or journal manuscript defense.

Once the faculty advisory and research committees have certified that the student has completed the academic and research requirements, the director of the graduate program will certify the student for graduation and direct the graduate recorder to order the diploma.

Degree Requirements

Requirements for the M.S. degree are outlined in the Indiana University Graduate School Bulletin. Requirements for the M.S.D. degree are as follows:

Course Work

The student must complete a minimum of 30 credit hours of course work, of which at least 18 must be devoted to didactic work. A minimum of 6 credit hours must be earned toward a minor subject outside the major concentration.

Other elective subjects may be selected, based on the student's educational objectives. A total of 6 credit hours must be in research; however, additional research credit

cannot be used toward fulfillment of requirements for the degree.

All students enrolled in the IU School of Dentistry's M.S.D. program are required to submit a research proposal to the IUSD Student Research Subcommittee prior to beginning the experimental or data collection phase of their research projects. Prior to this, the student's research committee must review and approve the proposal. Preliminary review of the literature and selection of a research topic should ordinarily be completed by the end of the first spring semester of the program.

It is the goal of the proposal review process to provide qualified feedback to the principal investigator and student on the scientific merit of the project. The school has a vested interest in encouraging students and faculty to prepare well-justified and competitive proposals, research publications, and both internal and external grant applications related to their work. A secondary goal of this process is to improve the external funding support the school receives by improving the quality of student pilot projects that can provide preliminary data for external grant proposals from principal investigators.

The IUSD Student Research Subcommittee consists of members of the faculty who are active in research and are willing to provide significant guidance in reviewing research proposals.

Each student must satisfactorily complete the project and submit an approved thesis or journal manuscript.

Core Courses

All graduate students enrolled in dental school programs (including M.S. degree candidates) are required to complete five core courses, as designated by the IU School of Dentistry Graduate Program. These courses are:

- G907 Clinical Oral Pathology Conference I
- G909 Clinical Oral Pathology Conference II
- G910 Seminar (Biostatistics)
- G948 Advanced Radiology
- R955 Graduate Oral Biology I

The core courses are in addition to courses that are required by individual departments.

Required courses must be taken in the proper sequence, as specified by the student's committee. In most departments there are additional program requirements designed to meet such criteria as may be specified by the several dental specialty boards and the American Dental Association Commission on Dental Accreditation Standards for Advanced Specialty Education Programs. The final credit requirement, including elective course work, is determined by each student's graduate committee and is usually dependent upon the student's previous academic accomplishments.

Grades

Failure to maintain a minimum grade point average of 3.0 (on a 4.0 scale) in either the major or minor concentration and/or failure to demonstrate evidence of continuing professional growth may subject the student to dismissal from the program.

Examinations

The members of the student's faculty advisory committee (previously described) will conduct the qualifying (oral and written comprehensive) examination, which essentially covers the candidate's field of study. The exact format of the examination will be determined by the individual faculty advisory committee and described in an educational agreement signed by the student and department chairperson at the beginning of the program. Successful completion of the qualifying examination is required in order to proceed to completion of the thesis or journal manuscript research, defense of the thesis or journal manuscript, and awarding of the degree. In accordance with University Graduate School requirements, students who fail the qualifying examination are normally allowed only one retake. The student must complete the qualifying examination six months prior to the intended date of graduation. The student is eligible but not required to take the examination upon the completion of one-half of the didactic requirements.

English Proficiency

All graduate students for whom English is not the first language must take the English for Academic Purposes (EAP) Placement Test at the beginning of their dental school program. This test is offered on the IUPUI campus by the EAP Program in the Department of English. Students must satisfactorily complete all English courses required as a result of performance on the EAP test before a certificate or degree can be awarded. The required English courses must be completed during the first year of study.

All graduate students whose first language is not English must be tested for oral English language competency before they are given any appointment having direct student contact. Students' oral language proficiency will be assessed using the SPEAK Test, a pronunciation test that is also offered by the EAP Program. If the results of the SPEAK test indicate that the student must take one or more English courses, these courses must be paid for by the student and must be satisfactorily completed before the student will be allowed to teach.

For more information about these tests, call the EAP Program at (317) 274-2188 or visit the [EAP Program's Web site](#).

Continuing Enrollment

Students who have passed the qualifying examination and completed two years as a full-time student must enroll each semester (excluding summer sessions for off-campus students) for any remaining required course work or research credits. Once students have accumulated the number of credit hours required by the particular graduate program, they must enroll for a minimum of 1 hour of graduate credit each semester until the degree is completed. Failure to meet this requirement will automatically terminate the student's enrollment in the degree program. All requirements for the master's degree must be completed within five consecutive years.

Time Limits and Revalidation

Master's programs in the School of Dentistry comply with IU's University Graduate School requirements regarding time limits and course revalidation. Thus, as a rule, a course may not be counted toward degree requirements if it has been completed more than five years prior to the awarding of the degree for master's students. The advisory committee, however, may recommend to the dean that course work

taken prior to the above deadlines be revalidated if it can be documented that the knowledge contained in the course(s) remains current. Examples of such documentation may include (1) passing an examination specifically on the material covered by the course; (2) passing a more advanced course in the same subject area; (3) passing a comprehensive examination in which the student demonstrates substantial knowledge of the content of the course; (4) teaching a comparable course; or (5) publishing scholarly research demonstrating substantial knowledge of the content and fundamental principles of the course. Each course for which consideration for revalidation is being requested should be justified separately.

Students who do not complete all M.S. or M.S.D. requirements within five years will be given a maximum of one additional year to revalidate courses and complete all requirements. The enrollment of any student who fails to fulfill these requirements will be automatically terminated at the end of that year.

In the event the course work cannot be revalidated or the thesis or journal manuscript cannot, in the opinion of the advisory committee, be completed by the deadline stated above, the student, upon the advice of the advisory committee, may be awarded a certificate of completion of a curriculum in postgraduate study, or a certificate of attendance, whichever is deemed appropriate by the IU School of Dentistry. (Please note, however, that programs are not required to grant such certificates. See individual program educational agreements for specifics.)

M.S.D. Thesis or Journal Manuscript

The results of the M.S.D. degree research must be presented to the student's research committee either in traditional thesis form, or as a manuscript that will be submitted to a peer-reviewed journal. The research committee must approve the thesis before the student submits the thesis electronically to the IUPUI digital archive, IUPUI ScholarWorks. Students must also submit a bound thesis to their major and minor departments. If the manuscript option is selected in lieu of the thesis, the research committee and the research mentor must approve both the manuscript and the journal it is intended for before the manuscript can be submitted to the journal.

Ph.D. Degree

Doctor of Philosophy (Ph.D.) Degree in Dental Science

The objective of the Ph.D. in Dental Science Program is to provide a core curriculum that offers a solid scientific base for a career in research and/or teaching in the dental sciences. The Ph.D. degree in Dental Science (oral biology, preventive dentistry, or dental biomaterials track) focuses on basic and clinical science areas as they relate to the human organism and on the effect of dental materials on biological systems. Graduates of this program are ideal candidates for academic teaching and/or research positions in dental schools, medical schools, and other basic science departments as well as for research positions in government institutions and industry.

- Admission
- Tuition
- Enrollment and Financial Support

- Degree Requirements
- Curricula:
- Oral Biology Track Core Curriculum
- Preventive Dentistry Track Core Curriculum
- Dental Biomaterials Track Core Curriculum

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Admission

The program is open to persons who have earned the Doctor of Dental Surgery degree or its equivalent as well as graduates of bachelor of science degree programs. Applicants must have a minimum grade point average of 3.0 or higher on a 4.0 scale (grade point averages from the dental degree in the case of dental school graduates). Candidates for the Ph.D. degree program must have a minimum percentile score on the Graduate Record Examination (GRE) of 55 percent in the verbal, quantitative, or analytical section. In addition, an acceptable TOEFL score must be obtained by applicants from non-English-speaking countries, as follows: a score of 550 or higher on the paper-based test, 213 or higher on the computer-based test, or 79 or higher on the Internet-based test.

Tuition

Tuition is paid at the time of registration and is subject to change by action of the Trustees of Indiana University.

All students applying for admission to the School of Dentistry are required to pay an Application Fee of \$60.00 in U.S. dollars (check or money order). This fee is paid only once, is nonrefundable, and is not applied to other fees.

Tuition for 2013-2014 Academic Year

Ph.D. students are charged a credit hour rate throughout the entire course of study. Rates for the 2013-2014 academic year are \$319.92 per credit hour for residents and \$957.70 per credit hour for nonresidents.

Students are also assessed IUPUI fees:

General Fee Academic Year: \$200.00 per semester (6 or fewer credit hours); \$343.05 per semester (more than 6 credit hours)

General Fee Summer: \$200.00 (6 or fewer credit hours); \$343.05 (more than 6 credit hours)

Repair and Rehabilitation Building Fee: \$13.33 per credit hour up to maximum of \$159.96 per semester

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Enrollment and Financial Support

Enrollment in the Ph.D. in Dental Science Program is limited in regard to the number of appropriate faculty available to serve as research mentors. In general, an average ratio of one student to one graduate faculty member is the maximum.

Acceptance criteria will be as described above, with applicants being ranked by grade point averages, GRE scores, previous research experience, and possibly by interviews. Financial support is primarily the responsibility of the student. However, several fellowships may be available.

Degree Requirements

General Information

The degree requires 90 credit hours with 32-40 required course credits (depending on the choice of track) and 12 credits in a minor. Disciplines included in the program are anatomy, biochemistry, biomedical engineering, biostatistics, cell biology, chemistry, immunology, materials science engineering, mechanical engineering, microbiology, molecular biology, pathology, physics, and physiology.

The three Ph.D. tracks contain courses in biostatistics, research ethics, research communications, and effective teaching methods. The two courses in biostatistics emphasize the important role of appropriate statistical methods used in biological research. The research ethics course addresses the importance of a strong ethical approach to the scientific method and human and animal research. Research Communications is a multidisciplinary course that will increase the ability of the student to write and review scientific papers. The teaching methods courses recognize that most of our students will ultimately teach in an academic environment and may have no previous course work in education. In addition, students are required to participate as tutors in IU's problem-based learning program for dental students.

All general requirements of IU's University Graduate School apply to the Ph.D. in Dental Science Program, plus specific requirements of the program as outlined in the core curricula below. All Ph.D. work offered in partial fulfillment of degree requirements must either be completed within seven consecutive calendar years of the passing of the qualifying examination or be revalidated. Any student whose candidacy lapses will be required to apply to the University Graduate School for reinstatement before further work toward the degree may formally be done. To be reinstated to candidacy in the University Graduate School, the student must: (1) obtain permission of the program director; (2) fulfill the program requirements in effect at the time of the application for reinstatement; (3) pass a current Ph.D. qualifying examination or its equivalent (defined in advance); and (4) request reinstatement to candidacy from the dean. Such reinstatement, if granted, is valid for a period of three years, during which time the candidate must enroll each semester for a minimum of 1 credit hour.

English Proficiency

Students who are nonnative speakers of English must take the English for Academic Purposes (EAP) Placement Test at the beginning of their dental school program. This test is offered on the IUPUI campus by the EAP Program in the Department of English. Students must satisfactorily complete all English courses required as a result of performance on the EAP test before a certificate or degree can be awarded. The required English courses must be completed during the first year of study.

For more information, visit the [EAP Program's Web site](#):

Continuing Enrollment

Students who have passed the qualifying examination must enroll each semester (excluding summer sessions) for any remaining required course work or dissertation credits. Once such students have accumulated 90 credit hours in completed course work and deferred dissertation credits, they must enroll for a minimum of 1 hour of graduate credit each semester (excluding summer sessions) until the degree is completed. Failure to meet this requirement will automatically terminate the student's enrollment in the degree program.

A candidate who will be graduating in June, July, or August of any year must enroll in a minimum of 1 hour of credit in either the current or immediately preceding summer session.

Minor

The minor consists of 12 credit hours in any one of the advanced basic science courses (anatomy, biochemistry, biomedical engineering, chemistry, materials science engineering, mechanical engineering, microbiology and immunology, pathology, pharmacology, physics, physiology, life science) or their equivalents, as approved by the student's advisory committee and the chairperson of the minor department. Credit hours for the required courses may not count toward the minor courses.

Other Courses

Selection of other courses is determined by requirements of the chosen minor, research committee, and/or advisory committee.

Teaching Experience

All students participate in the predoctoral dental curriculum by tutoring in small, problem-based learning (PBL) groups for a total of two PBL blocks after successful completion of the IU School of Dentistry tutor-training program. All students receiving stipends or tuition support from the school must tutor for an additional one or two blocks per year. Students who are nonnative speakers of English must be tested for oral English language competency before they are given any appointment having direct student contact. Students' oral language proficiency will be assessed using the SPEAK Test, a pronunciation test that is also offered by the EAP Program. If the results of the SPEAK test indicate that the student must take one or more English courses, these courses must be paid for by the student and must be satisfactorily completed before the student will be allowed to teach.

For more information, visit the [EAP Program's Web site](#).

Students are required to enroll in the IUPUI Preparing Future Faculty (PFF) program.

Research

Laboratory Rotations—R957 Introduction to Research in Oral Biology (3 cr.); at least three separate rotations (two to four months each) conducting small projects in the laboratories of IU graduate faculty members. Projects will be graded. Students in all tracks enroll in this course once. It is expected that the student will choose a dissertation advisor (mentor) from these faculty members.

Laboratory Research—R958 Research: Oral Biology (1-12 cr. hrs./semester); G930 Research: Preventive Dentistry (1-12 cr. hrs./semester); or G921 Research: Dental Materials

(1-12 cr. hrs./semester). Credit for research is directly related to the writing and defense of a Ph.D. dissertation.

G901 Dissertation Research. Once 90 total credits have been accumulated in the appropriate areas, students may enroll in this course for a maximum of six semesters until the dissertation is complete. Students must be enrolled for at least 1 credit hour each semester.

Research Credits

46 minimum (Oral Biology Track), 38 minimum (Preventive Dentistry Track), 39 minimum (Dental Biomaterials Track).

Student Advisory Committee

The student chooses the advisory committee, usually by the end of the first spring semester following enrollment in the program. The initial committee is composed of three members of the dental school faculty, two of whom must be members of the [University Graduate School faculty](#). Generally, one member is also the student's intended dissertation mentor. This committee is responsible for monitoring the student's progress and for advising the student with regard to all matters associated with the graduate program.

Prior to the student's qualifying exam (generally by the second summer following enrollment), two additional advisory committee members will be added from the student's minor field and/or from the general area in which the student has decided to conduct his or her dissertation research. This committee of five serves as the qualifying exam committee, with a member other than the dissertation mentor serving as chairperson.

Qualifying Examination for Admission to Candidacy

The qualifying exam consists of two parts: (1) writing and presenting an oral defense of a research proposal; and (2) sitting for a written exam.

Research Proposal

The student chooses, with the help and approval of the advisory committee chairperson, a topic for a grant proposal to be written and defended as part of the qualifying exam. This is usually done by the end of the second spring semester following enrollment. The topic may be in the area of the student's intended dissertation research but cannot be prepared as a requirement for another course.

Students should begin with an outline for a proposal that is approved by the committee chairperson. After approval, the student writes a proposal in the style of a National Institutes of Health (NIH) R01 grant proposal including the following sections: Summary, Specific Aims, Background and Significance, Research Design and Methods, Literature Cited, and Budget, but with the length reduced to a maximum of 15 single-spaced, 12-point font pages for the following sections: Summary, Specific Aims, Background and Significance, and Research Design and Methods. There are no page limits for the Literature Cited and Budget sections. The proposal, once written to the satisfaction of the student, is submitted to the committee chairperson, who distributes copies to the rest of the committee. The committee decides whether the proposal is defensible or in need of revisions prior to the defense. Upon final approval, a time is set for the student to defend the proposal in the presence of the committee.

The defense of the proposal consists of a 30- to 45-minute presentation of the proposed work by the student, followed by a one- to three-hour oral examination consisting of questions arising from the proposal, the student's presentation, or answers to initial questions. Satisfactory defense of the proposal will be followed by a written exam at a date and time convenient to the members of the committee and student (within 60 days after the proposal defense). Students who do not satisfactorily complete the proposal defense may be allowed to retake it with the permission of the advisory committee.

Written Examination

Each member of the advisory committee submits a comprehensive question in his or her area(s) of expertise to the committee chairperson, who then collates the questions from all five committee members. The exam package is handed to the student on the morning of the exam. The student is provided a room in which to complete the examination, preferably in a typed format. No notes or any other study aids are permitted during the exam, which is expected to be completed within eight hours. The entire exam is returned to the chairperson, who distributes the answers to individual committee members for correction, usually within a week. Students who do not satisfactorily complete the written exam may be allowed to retake it once with the permission of the advisory committee. In addition, students who fail both components of the qualifying exam are normally allowed to retake the exam once. The qualifying exam must be completed at least eight months before the degree is awarded.

Admission to Candidacy

The student advisory committee submits a Nomination to Candidacy form to the University Graduate School after the student has completed all required didactic courses and passed the qualifying exam.

Research Committee

Members of the advisory committee may continue to serve as members of the student's research committee. However, the latter committee is chaired by the student's research advisor, who must be a member of the [University Graduate School faculty](#) with endorsement to direct doctoral committees. The research committee is composed of two other members of the University Graduate School faculty in the School of Dentistry, a member of the University Graduate School faculty outside of the School of Dentistry (generally a member of the minor department), and an expert in the student's field of research outside of Indiana University. The outside member must meet the requirements of membership. At least half of the members of the research committee must be members of the University Graduate School faculty with endorsement; others may be members either with or without endorsement.

The research committee is responsible for supervising the student's research, reading the dissertation and providing scientific and editorial comments on its content, and conducting the final examination (defense of dissertation). The research committee, except for the outside member, typically meets formally with the student twice annually to assess progress and make appropriate suggestions. During one of these assessments, most likely during the third or fourth year but usually at least six months prior to completion of the dissertation, the student gives a 45–50-minute

presentation open to all dental school faculty. The dissertation defense consists of a 45–50-minute presentation open to all university faculty followed by a one- to three-hour oral examination on the dissertation that is open to the research committee only.

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Oral Biology Track Core Curriculum

(The Oral Biology Track core curriculum has a minimum of 44 course credits, composed of 32 required and 12 minor credits.) For descriptions of courses that do not appear on the list of graduate courses in this bulletin (i.e., courses that are not coded DENT), contact the appropriate department or school (see list of Web sites below).

Required Courses (32 credits minimum) Biochemistry (3-5 credits)

- BIOC B500 Introduction to Biochemistry (3 cr.) or
- BIOC B800 Medical Biochemistry (3 cr.) and
- GRAD G817 Eukaryotic Cell Biology (2 cr.)

Microbiology (3 credits)

- MICR J822 General and Medical Microbiology (3 cr.) or
- MICR J510 Infectious Microbes and Host Interaction (3 cr.) or
- MICR J805 Molecular Immunology (3 cr.)

General Graduate (16 credits)

- GRAD G504 Introduction to Research Ethics (2 cr.)
- PBHL B651 Introduction to Biostatistics I (3 cr.)
- PBHL B652 Introduction to Biostatistics II (3 cr.)
- GRAD G655 Research Communications Seminar (2 cr.; taken in spring of second year)
- GRAD G865 Fundamental Molecular Biology (3 cr.)
- EDUC J500 Instruction in the Context of Curriculum (3 cr.) or PSY 608 Measurement Theory and Data Interpretation (3 cr.) or EDUC R503 Instructional Media Applications (3 cr.); taken in first year; or other teaching method course recommended by the program director

Dental/Oral Biology (10-15 credits)

- DENT G910 Seminar: Preventive Dentistry or
- DENT R959 Seminar: Oral Biology (one semester each year; 1 cr. each)
- DENT R956 Current Topics in Oral Biology (2 semesters; 4 cr. each)

Research (remainder of 90 credits)

- DENT R957 Introduction to Research in Oral Biology (3 cr.; taken once)
- DENT R958 Research: Oral Biology (1-12 cr. each semester)

Information about courses offered by schools and departments other than the School of Dentistry are available at the following links:

[Indiana University Graduate School](#)

[Indiana University School of Medicine Department of Biochemistry & Molecular Biology](#)

[IUPUI Department of Psychology](#)

[IUPUI Richard M. Fairbanks School of Public Health](#)

[IUPUI School of Education](#)

[IUPUI School of Engineering and Technology](#)

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Preventive Dentistry Track Core Curriculum

(The Preventive Dentistry Track core curriculum has a minimum of 51 course credits, composed of 39 required and 12 minor credits.) For descriptions of courses that do not appear on the list of graduate courses in this bulletin (i.e., courses that are not coded DENT), contact the appropriate department or school (see list of Web sites below).

Required Courses (39 credits minimum)

- DENT G959 Oral Microbiology (3 cr.)
- DENT G974 Advanced Nutrition (2 cr.)
- DENT R909 Advanced Preventive Dentistry I (3 cr.)
- DENT R910 Advanced Preventive Dentistry II (3 cr.)
- DENT R911 Advanced Preventive Dentistry III (1-2 cr.)

Courses from the following list can be used to complete the total hours required for the major subject:

- DENT G900 Advanced Oral Histology and Embryology (2 cr.)
- DENT G905 Bone Physiology, Imaging, and Implant Anchorage (2 cr.)
- DENT G911 Dental Materials Science and Engineering (3 cr.)
- DENT G967 Advanced Periodontics (4 cr.)
- DENT G973 Vitamins, Mineral Metabolism, and Hormones (2 cr.)

General Graduate (13 credits)

- GRAD G504 Introduction to Research Ethics (2 cr.)
- PBHL B651 Introduction to Biostatistics I (3 cr.)
- PBHL B652 Introduction to Biostatistics II (3 cr.)
- GRAD G655 Research Communications Seminar (2 cr.; taken in spring of second year)
- EDUC J500 Instruction in the Context of Curriculum (3 cr.) or PSY 608 Measurement Theory and Data Interpretation (3 cr.) or EDUC R503 Instructional Media Applications (3 cr.); taken in first year; or other teaching method course recommended by the program director

Dental/Oral Biology (10-15 credits)

- DENT G910 Seminar: Preventive Dentistry or

- DENT R959 Seminar: Oral Biology (one semester each year; 1 cr. each)
- DENT R956 Current Topics in Oral Biology (2 semesters; 4 cr. each)

Required Dental Sciences Courses for Non-Dental Preventive Dentistry Track Applicants

Applicants without a dental degree may apply for the Preventive Dentistry Track but are required to take the following course in the first two years of their program:

- DENT G935 Dental Pediatrics (2 cr.)

Research (remainder of 90 credits)

- DENT G930 Research: Preventive Dentistry (1-12 cr. each semester)
- DENT R957 Introduction to Research in Oral Biology (3 cr.; taken once)

Information about courses offered by schools and departments other than the School of Dentistry are available at the following links:

[Indiana University Graduate School](#)

[IUPUI Department of Psychology](#)

[IUPUI Richard M. Fairbanks School of Public Health](#)

[IUPUI School of Education](#)

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Dental Biomaterials Track Core Curriculum

The Dental Biomaterials Track core curriculum has a minimum of 51 course credits, composed of 39 required and 12 minor credits. Courses are offered on both the IUPUI campus and at Purdue University in West Lafayette. For descriptions of courses that do not appear on the list of graduate courses in this bulletin (i.e., courses that are not coded DENT), contact the appropriate department or school (see list of Web sites below).

Required Courses (variable)

- Biochemistry-Microbiology (3 credits)
- BIOC B500 Introduction to Biochemistry (3 cr.); or
- DENT G959 Graduate Oral Microbiology (3 cr.)
- General Graduate (10 or 11 credits)
- PBHL B651 Introduction to Biostatistics I (2 cr.)
- PBHL B652 Introduction to Biostatistics II (2 cr.)
- GRAD G504 Introduction to Research Ethics (2 cr.); or
- GRAD G505 Responsible Conduct of Research (1 cr.)
- GRAD G655 Research Communications Seminar (2 cr.)
- EDUC J500 Instruction in the Context of Curriculum (3 cr.); or

- PSY 608 Measurement Theory and the Interpretation of Data (3 cr.); or
- EDUC R503 Instructional Media Applications (3 cr.)
- Dental/Oral Biology (10-15 credits):
- DENT G910 Seminar: Dental Materials (1 cr.) or
- DENT G910 Seminar: Preventive Dentistry (1 cr.) or
- DENT R959 Seminar: Oral Biology (1 cr.; taken one semester each year)
- DENT R956 Current Topics in Oral Biology (taken for 2 semesters; 4 cr. each)

Elective Courses

- MSE 53000 or MSE 23000 Materials Processing in Manufacturing or Structure and Properties of Materials (3 cr.)
- MSE 24000 Processing and Properties of Materials (3 cr.)
- MSE 33500 Materials Characterization Laboratory (3 cr.)
- MSE 35000 Thermodynamics of Materials (3 cr.)
- MSE 38200 Mechanical Response of Materials (3 cr.)
- MSE 69000 Seminar in Materials Engineering (0 cr.)
- DENT G911 Dental Materials Science and Engineering (3 cr.)
- DENT G912 Properties and Test Methods: Dental Materials (3 cr.)
- DENT G913 Clinical Applications of Dental Materials (3 cr.)
- MA 52700 Advanced Mathematics for Engineering and Physics I (3 cr.)

Specialty Courses (In Addition to the Core Courses):

Polymers:

- MSE 52500 Structure-Property Relationships of Engineering Polymers (3 cr.)
- MSE 597Y Polymer Synthesis (3 cr.)
- MSE 597B-A&AE 590M Manufacturing of Advanced Composites (3 cr.)

6 credits in graduate-level course work chosen by the student's advisory committee

Ceramics:

- MSE 51000 Microstructural Characterization Techniques (3 cr.)
- MSE 51200 Powder Processing (3 cr.)
- MSE 52300 Physical Ceramics (3 cr.)
- MSE 55600 Fracture of Materials (3 cr.)

3 credits in graduate-level course work chosen by the student's advisory committee

Metals:

- MSE 50800 Phase Transformation in Solids (3 cr.)
- MSE 51000 Microstructural Characterization Techniques (3 cr.)
- MSE 52200 Rate Phenomena in Process Metallurgy (3 cr.)

6 credits in graduate-level course work chosen by the student's advisory committee

Biomechanics:

- BME 59500 Musculoskeletal Biology and Mechanics (3 cr.)
- BME 59500 Molecular and Cellular Mechanics (3 cr.)
- MSE 55600 Fracture of Materials (3 cr.)

6 credits in graduate-level course work chosen by the student's advisory committee

Tissue Engineering:

- BME 59500 Tissue Engineering (3 cr.)
- BMS 52300 Tissue Engineering (3 cr.)
- BME 60100 Principles of Biomedical Engineering I (3 cr.)
- BME 60200 Principles of Biomedical Engineering II (3 cr.)
- BME 59500 Biomolecular Engineering (3 cr.)

Additional information for Purdue University and IUPUI courses is available at the following links:

[Indiana University Graduate School](#)

[Indiana University School of Medicine Department of Biochemistry and Molecular Biology](#)

[IUPUI Department of Mathematical Sciences](#)

[IUPUI Department of Psychology](#)

[IUPUI Richard M. Fairbanks School of Public Health](#)

[IUPUI School of Education](#)

[IUPUI School of Engineering and Technology](#)

[Purdue University Graduate School](#)

[Purdue University School of Materials Engineering](#)

[Purdue University Weldon School of Biomedical Engineering](#)

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Graduate Courses

The availability of specific course offerings varies from year to year.

DENT G905 Bone Physiology, Imaging, and Implant Anchorage (1-3 cr.) Histology, physiology, pathology of bone with reference to maxilla and mandible; development, growth, maintenance, and functional adaptation of bone; bone in pathologic states such as developmental disturbances, inflammatory disturbances, disturbances of metabolism, and tumors.

DENT G907 Clinical Oral Pathology Conference I (.5; 1 maximum cr.) Presentation of cases of diagnostic problems; student prepares several cases for presentation.

DENT G909 Clinical Oral Pathology Conference II (1 cr.) Differential diagnosis of oral and maxillofacial pathology. Emphasis on etiology, pathogenesis, and therapeutics.

DENT G910 Seminar (1 cr.)**DENT G911 Dental Materials Science and Engineering (2-3 cr.)**

Composition, chemical reactions, physical properties, and clinical significance of metals, resins, and other materials used in dentistry; phases of metallography, physical chemistry, and physics pertinent to this field. Laboratory experience in specimen preparation, use of metallograph and scanning electron microscope.

DENT G912 Properties and Test Methods: Dental Materials (2-3 cr.)

Discussion of the basic physical, mechanical, and chemical properties with emphasis on the relationship to dental materials. Methods applicable to testing dental materials for these properties will be discussed along with ADA and ANSI specifications. (Laboratory demonstrations of instruments.)

DENT G913 Clinical Applications of Dental Materials (2-3 cr.)

P: G912. This is a seminar course in which the clinical behavior and manipulation of dental materials as related to basic physical and chemical properties of the materials are discussed. Specific clinical problems are defined and knowledge of basic properties applied to explain the behavior and/or solve the problem.

DENT G914 Advanced Complete Denture Theory (1-3 cr.)

Advanced theories of complete denture prosthodontics, including comparison of denture materials and prosthetic teeth.

DENT G915 Advanced Complete Denture Clinic (1-6 cr.)

Clinical practice following advanced theories and practices suggested in G914.

DENT G916 Special Problems in Complete Denture Design (1-4 cr.)

Treatment of patients with difficult and unusual prosthetic denture problems.

DENT G917 Maxillofacial Prosthetics (1-6 cr.)

Lectures on the prosthetic rehabilitation of individuals with congenital, acquired, or developmental intraoral and extraoral defects; hospital routine and multidisciplinary approach to treatment.

DENT G918 Research: Dental Diagnostic Sciences (arr. cr.)**DENT G921 Research: Dental Materials (arr. cr.)****DENT G922 Research: Pediatric Dentistry (arr. cr.)****DENT G923 Research: Prosthodontics (arr. cr.)****DENT G925 Research: Operative Dentistry (arr. cr.)****DENT G926 Research: Endodontics (arr. cr.)****DENT G927 Research: Orthodontics (arr. cr.)****DENT G928 Research: Periodontics (arr. cr.)****DENT G930 Research: Preventive Dentistry (arr. cr.)****DENT G931 Advanced Pediatric Dentistry (1-3 cr.)**

Two-semester course; diagnostic, preventive, and therapeutic phases of pediatric dentistry; evaluation of the literature.

DENT G934 Advanced Clinical Pediatric Dentistry (1-6 cr.)

Advanced, diagnostic, corrective, and preventive procedures in pediatric dentistry; instruction and clinical

experience in restorative dentistry, dental caries control, pulp therapy, periodontics, hereditary and congenital dental anomalies, oral medicine, behavior management, sedation, managing patients with various medically or physically disabling conditions, managing oral trauma, and interceptive orthodontic procedures.

DENT G935 Dental Pediatrics (1-2 cr.)

Medical and dental problems of the chronically ill or handicapped child; lectures, discussions, and ward rounds cover physical diagnosis, and normal and abnormal physical and emotional growth of the child.

DENT G936 Advanced Pediatric Dentistry Techniques (1-3 cr.)

Interceptive orthodontic appliance design and fabrication.

DENT G937 Advanced Clinical Instruction in Removable Partial Prosthodontics (.5-6 cr.)

Clinical experience in extracoronally and intracoronally retained removable partial dentures.

DENT G938 Advanced Removable Partial Prosthodontics Technique (.5-6 cr.)

Tooth preparation for and fabrication of abutment restorations for extracoronally and intracoronally retained removable partial dentures, and fabrication of the prostheses.

DENT G940 Advanced Clinical Instruction in Fixed Partial Prosthodontics (1-6 cr.)

Patient treatment involving the use of extracoronally restorations and fixed prostheses, including partial veneer cast crowns, full veneer cast crowns, pin-ledge retainers, metal-ceramic crowns, all-ceramic crowns, metal-ceramic pontics, and sanitary pontics.

DENT G941 Advanced Fixed Partial Prosthodontics Technique (.5-4 cr.)

Tooth preparation for and fabrication of extracoronally restorations and fixed prostheses, including partial-veneer gold crowns, full-veneer cast crowns, pin-ledge retainers, metal-ceramic crowns, all-ceramic crowns, metal-ceramic pontics, and sanitary pontics.

DENT G942 Theories of Occlusion (1-2 cr.)

Review of the literature, philosophies, and techniques of major contributors to the development of modern gnathological concepts.

DENT G944 The Principles of Gnathology (1-2 cr.)

Lectures, laboratory, and clinical exercises demonstrating the application of gnathological principles to restorative dentistry.

DENT G945 Pediatric Dentistry Seminar (1 cr.)

Current literature, research design, case analysis, and diagnosis.

DENT G947 Cephalometrics (1-4 cr.)

Technique of procuring films of living individuals; tracing of important facial landmarks and planes; taking of significant angular and linear readings, and transposing same to a graph.

DENT G948 Advanced Radiology (2 cr.)

Applications in X-ray production, intraoral and extraoral techniques, film processing, radiographic interpretation, radiation hygiene.

DENT G950 Advanced Clinical Operative Dentistry (1-6 cr.)

Comprehensive restorative care correlated with modern preventive dentistry principles; current concepts of operative dentistry.

DENT G951 Interdisciplinary Role of Operative Dentistry (2 cr.) The interrelationship of operative procedures with other areas of dental and general health care delivery.

DENT G952 Analysis of Operative Procedures (2 cr.) Restorative techniques and physical properties of dental materials correlated to properties of tooth structure; pulp protection and permanency of restorations.

DENT G953 Recent Advances in Operative Dentistry (2 cr.) Current concepts dictated by research; correlation of reports on the literature.

DENT G956 Advanced Endodontics (1-8 cr.) Classroom instruction and clinical experience in developing proficiency in complicated endodontic cases.

DENT G957 Analysis of Endodontic Theory (1-4 cr.) Library research and review of literature supporting principles and practice of endodontics.

DENT G958 Biomechanics (1-4 cr.) Principles of force application used in altering dento-facial relationship; appliance design, fabrication, and activation; specific treatment procedures discussed and applied on the typodont.

DENT G959 Oral Microbiology (3 cr.) P: Basic microbiology. Role of oral microorganisms in health and disease states of the host. Emphasis is placed on the biological mechanisms involved in dental caries, periodontal disease, and specific microbial infections of the oral cavity.

DENT G960 Advanced Orthodontic Clinic (1-6 cr.) Details of treatment plan based on careful analysis; timing phenomena; reanalysis of treatment; cleft palate, surgical correction, temporomandibular syndrome.

DENT G963 Advanced Orthodontic Techniques (2 cr.) Details of wrought and cast appliances used in treatment of malocclusions.

DENT G964 Dento-Facial Analysis (2 cr.) P: G947. Methods of determining and evaluating deviation from normal dental, skeletal, muscular, and integumental patterns; treatment objectives with respect to stability, esthetics, and function.

DENT G966 Advanced Clinical Periodontics (1-4 cr.) Evaluation and treatment of special advanced cases involving diseases of soft tissue and bony support structures.

DENT G967 Advanced Periodontics (1-4 cr.) Periodontal diseases relating to etiology, symptomatology, treatment, and differential diagnosis.

DENT G972 Proteins and Nucleic Acids (2 cr.) Composition, function, and regulation of proteins and nucleic acids and their relationship to oral structures.

DENT G973 Vitamins, Mineral Metabolism, and Hormones (2 cr.) Composition, function, and regulation of hormones, vitamins, and minerals and their relationship to oral health.

DENT G974 Advanced Nutrition (2 cr.) Review of the basic nutrient categories and their relationship to health and disease in contemporary society. Special emphasis on nutritional factors influencing dental and oral health.

DENT G976 Advanced Oral Pathology I (1-2 cr.) All phases of disease of the oral cavity and adjacent structures; oral

manifestations of systemic disease; disturbances of growth and development, infections, and neoplasms; microscopic study of tissue sections.

DENT G977 Advanced Oral Pathology II (2 cr.) All phases of disease of the oral cavity and adjacent structures; oral manifestations of systemic disease; disturbances of growth and development, infections, and neoplasms; microscopic study of tissue sections.

DENT G980 Advanced Surgical Endodontics (1-6 cr.) P: G956 and G957. Classroom instruction in principles and clinical experience in advanced surgical endodontics.

DENT R901 Oral Surgery Literature Seminar (.5 cr.) Seminar review of classic and current literature in the field of oral and maxillofacial surgery.

DENT R905 Advanced Oral Surgery (1-3 cr.) Major and minor advanced oral surgical procedures, treatment planning, and variable approaches to similar problems; development of surgical judgment. (Enrollment limited to oral and maxillofacial surgery residents, except by special permission.)

DENT R909 Advanced Preventive Dentistry I (2-3 cr.) Basic concepts, principles, and techniques relative to the etiology and prevention of oral diseases. Analysis of the components of the oral environment, attacking agents, defense mechanisms, and preventive measures.

DENT R910 Advanced Preventive Dentistry II (2-3 cr.) Basic concepts, principles, and techniques relative to the etiology and prevention of oral diseases. Analysis of the components of the oral environment, attacking agents, defense mechanisms, and preventive measures.

DENT R911 Advanced Preventive Dentistry III (1-2 cr.) Basic concepts, principles, and techniques relative to the etiology and prevention of oral diseases. Analysis of the components of the oral environment, attacking agents, defense mechanisms, and preventive measures.

DENT R916 Scientific Writing (2 cr.) This course is designed to inform graduate students of techniques of writing and editing that will help them in their writing projects in graduate school and in their future careers.

DENT R921 Maxillofacial Prosthetics Clinic (.5-6 cr.) Introduction to the clinical management of individuals with congenital, acquired, or developmental intraoral and extraoral defects, with hospital experiences and a multidisciplinary approach.

DENT R922 Advanced Maxillofacial Prosthetics Clinic (1-6 cr.) Advanced clinical practice in the treatment of individuals with congenital, acquired, or developmental intraoral and extraoral defects, with hospital experiences and a multidisciplinary approach.

DENT R923 Maxillofacial Prosthetics Seminar (.5-2 cr.) Review of fundamentals, multidisciplinary topics, current literature, and case presentation.

DENT R924 Retention and Post-Retention Analysis (2 cr.) Problems of retention in orthodontically treated patients; appliances and procedures for prevention and control of relapses; retrospective analysis of long-term post-retention

records to assess the results of different approaches to treatment.

DENT R925 Special Topics in Dentistry (1-14 cr.)

Attendance at lectures, seminars, and special clinics designed to update students' knowledge in clinical and basic science disciplines.

DENT R928 Advanced Maxillofacial Prosthetic Technique (.5-1 cr.)

Design and fabrication of obturators for partial maxillectomy patients, both edentulous and dentulous. Introduction to the fabrication of extraoral prostheses.

DENT R929 Advanced Complete Denture Technique (.5-1 cr.)

Dental laboratory procedures for the fabrication of complete and immediate dentures, including setting and equilibrating denture teeth.

DENT R930 Prosthodontic Literature Review (.5-1 cr.)

Discussion of assigned topics from classic and current prosthodontic and related literature, led by students and moderated by faculty member in charge.

DENT R931 Advanced Fixed Partial Prosthodontics Seminar and Laboratory I (.5-2 cr.)

Advanced clinical and laboratory procedures with emphasis on metal-ceramic restorations.

DENT R932 Speech and Craniofacial Anomalies (1 cr.)

Background into etiology, incidence, and classification of cleft lip and/or palate. Emphasis upon rehabilitation of patients with facial malformations including orthodontic, orthopedic, prosthetic, and surgery.

DENT R933 Clinical Prosthodontics Seminar (.5-2 cr.)

Advanced clinical procedures pertinent to the practice of prosthodontics.

DENT R934 Surgical Orthodontics Seminar I (1 cr.)

Theoretical basis for diagnosis and treatment planning of cases involving both orthodontics and surgery.

DENT R935 Surgical Orthodontics Seminar II (1 cr.)

Continuation of Surgical Orthodontics Seminar I; theoretical basis for diagnosis and treatment planning of cases involving both orthodontics and surgery; student prepares cases for presentation.

DENT R936 Advanced Fixed Partial Prosthodontics Seminar and Laboratory II (.5-2 cr.)

Advanced clinical and laboratory procedures with emphasis on all-ceramic restorations.

DENT R940 Fundamentals of Implant Dentistry I (1-3 cr.)

Two-semester course presenting oral implants as an alternative for removable prostheses. The lecture and class participation course offers biological sciences relating to implantology with emphases on biomaterials, physiology of bone, soft tissue, and wound healing relating to various implants. Includes a review of pathology affecting implant therapy success.

DENT R941 Fundamentals of Implant Dentistry II (1-3 cr.)

An overview of available implant systems with clinical application including patient selection, diagnosis and treatment planning, implant placement, interim prosthetic management, and definitive restorative procedures. This lecture/clinical course is in conjunction with G915, G937,

and G940 (clinics) and will provide hands-on experiences in clinical and laboratory procedures.

DENT R942 Management of Temporomandibular Disorders and Occlusion (1-3 cr.)

This course, a weekly two-hour seminar, will give the student a better perspective on the diagnosis and management of temporomandibular disorders. Host speakers will lecture on the perspective of their specialty (e.g., neurology, radiology, psychology, psychiatry, rheumatology, orthopedics, physical medicine, physical therapy). Literature reviews will be prepared by participating students.

DENT R943 Management of Temporomandibular Disorders and Occlusion--Clinic (1-3 cr.)

P: R942. Weekly three-hour clinical session for clinical management of the TMJ patient with (1) pain of muscular origin; (2) internal derangement; (3) problems associated with inflammation, chronic hypomobility, hypermobility, and deformity.

DENT R944 Graduate Craniofacial Growth and Development I (2-3 cr.)

Growth and development of the craniofacial complex are presented in descriptive and theoretical terms as they relate to occlusion and orthodontics.

DENT R946 Prosthodontic Patient Presentation (.5-2 cr.)

Case presentations and discussion of alternative methods of rehabilitation.

DENT R947 Orthodontics for the Mixed Dentition (1 cr.)

A course designed to familiarize the student with early interceptive orthodontic treatment in the mixed dentition and early first phase of comprehensive orthodontic treatment.

DENT R948 Private Practice of Prosthodontics (.5-3 cr.)

This seminar will provide guidance and resource materials that would be useful in establishing and promoting a prosthodontic practice. The diversity and similarity of prosthodontic practices will be illustrated. Field trip visits to several prosthodontic offices will be available. An effort will be made to establish a network for continuing support and exchange of ideas.

DENT R949 Advanced Head and Neck Anatomy (3 cr.)

P: Previous course in gross anatomy of the head and neck. This course presents an advanced approach to cranial anatomy with special reference to those regions of particular importance to clinical dentistry. Lectures are supplemented with a human cadaver dissection.

DENT R951 Advanced Minimal and Moderate Sedation (2 cr.)

Prepares students in the use of intravenous light sedation as an adjunct to a comprehensive management program for patients in the private practice setting.

DENT R955 Graduate Oral Biology I (2.5 cr.)

Basic survey of oral biology, including cell biology; composition of the oral hard tissues; role of saliva in health and disease; systemic and oral microbial diseases important in dentistry; immunology; prevention of oral diseases; nutrition; and infection control.

DENT R956 Current Topics in Oral Biology (4 cr.)

P: B500 and G865 or equivalents. Purpose is to familiarize students with current areas of research in oral biology through a combination of lectures and literature discussions on topics covered in review articles and original research papers

appearing in journals devoted to various aspects of oral biology.

DENT R957 Introduction to Research (3 cr.) P: Consent of instructor. Laboratory research instruction in oral biology. Purpose is to introduce students to three different research programs in the field of oral biology.

DENT R958 Research: Oral Biology (1-12 cr.) P: Consent of instructor. Data obtained in this course may be used to meet the dissertation requirements for the Ph.D.

DENT R959 Seminar: Oral Biology (1 cr.) P: Consent of instructor. Current topics in all fields of oral biology. Discussion and review of current literature in oral biology. Topics vary from year to year. May be repeated for credit.

DENT R960 General Practice Residency Seminar (1 cr.) This course provides the required didactic components of an accredited general practice residency. Topics in emergency care, medicine, pain and anxiety control, oral medicine, prosthetics, endodontics, pathology, and periodontics are presented throughout the year.

DENT R961 Recent Advances in Periodontics (.5-2 cr.) Discussion of current concepts and recent advances reported in the periodontal literature with emphasis on evidence-based practice. The seminar is led by students and moderated by selected faculty.

DENT R962 Advanced Periodontal Treatment Planning Seminar (.5-2 cr.) Selected cases requiring periodontal and/or implant therapy will be presented by students. Various treatment options will be discussed for the particular case. Any completed therapy will be presented with a discussion and evaluation of the results.

DENT R963 Dental Implantology (1 cr.) Study of basic and clinical sciences related to dental implantology.

DENT R964 Pharmacology and Therapeutics for Graduate Dental Students (2 cr.) This course is a review of the major drug classes that the dental graduate student will encounter in the clinic. Discussion of how the drugs the patient takes impact the practice of dentistry will be included.

DENT R965 Advanced Clinical Prosthodontics (.5-6 cr.) Clinical practice of prosthodontics involving complete dentures, removable partial dentures, fixed partial dentures, and/or dental implant-supported prostheses.

DENT R966 Community Based Field Experience (3 cr.) This course aims at connecting meaningful community service experiences with academic and personal growth, as well as civic responsibility.

Student Organizations & Services

- Associations & Societies
- Dental Library
- Diversity Support
- Financial Assistance
- Health Service
- Housing

Associations & Societies

American Student Dental Association

The local chapter of the American Student Dental Association (ASDA) is fully recognized by the American Dental Association (ADA), and membership is required of all IUSD dental students. Membership dues are included with other fees assessed by the school during the fall semester billing process. Associate membership also is available to pre-dental students. ASDA protects and advances the rights, interests, and welfare of students pursuing careers in dentistry. Life insurance and other benefits are available to ASDA members.

Student American Dental Hygienists' Association

Dental hygiene students may join the Student American Dental Hygienists' Association, which offers experiences similar to those of ASDA.

Omicron Kappa Upsilon (OKU)

The national honor dental society, Omicron Kappa Upsilon (OKU), is represented by the component chapter of Theta Theta. Candidates are nominated from the upper one-fifth of each graduating class, with faculty voting into membership 12 percent of the class. The key, which is symbolic of the society, is awarded to each newly elected member. OKU awards several scholarships each year to students of high character who demonstrate academic proficiency as well as potential in advancing the profession of dentistry. Modest, interest-free loans are also available to second-, third-, and fourth-year students with a documented need.

Sigma Phi Alpha

The national honor dental hygiene society, Sigma Phi Alpha, is represented by the component Theta chapter. Candidates are nominated from the upper one-fifth of each graduating class, with faculty voting into membership up to 10 percent of the class. Elected members rank highest in scholarship, service, and leadership. The key, which is symbolic of the society, is awarded to each newly elected member. Sigma Phi Alpha awards several scholarships to outstanding students each year.

National Dental Association (NDA)

Dental students may also join the student branch of the National Dental Association (NDA), the nation's largest and oldest organization for minority oral health professionals. The NDA is dedicated to providing affordable dental care, education, and guidance to underserved members of the community, including racial and ethnic minorities, children, the indigent, the elderly, and the disabled. The Student National Dental Association promotes fellowship and cooperation among its members and aids in the advancement of minority students in dentistry. It has furthered these purposes through publication of a newsletter, annual conventions, and collaborations with other national dental groups such as the American Student Dental Association. More information is available at the following Web site: www.ndaonline.org.

Hispanic Dental Association

The Hispanic Dental Association provides leadership and represents professionals who share a common commitment to improving the oral health of persons in the Hispanic community through better prevention, treatment, and education. The association's objectives include fostering research and knowledge of Hispanic oral health problems, providing a worldwide source of continuing education for oral health professionals serving the Hispanic community, stimulating interest of Hispanics in oral health, and encouraging their entry into the oral health professions. The association is open to dental professionals, dental students, and students enrolled in the allied dental programs. More information is available at the following Web site: www.hdassoc.org.

Dental Library

The mission of the Indiana University School of Dentistry Library is to provide materials and services to support the teaching, research, patient care, and community outreach activities of faculty, staff, and students. In addition, the library provides information services to IU School of Dentistry alumni, Indiana citizens, and dental health professionals around the world.

Established in 1881, the IUSD Library has over 57,000 volumes on dentistry as well as the basic sciences and selected medical specialties. It maintains subscriptions to approximately 450 professional print and 300 online journal titles. Its rich collection of over 25,000 books and 32,000 bound journal volumes, which dates back to the mid-1800s and is international in scope, makes it one of the premier dental libraries in existence. The collection is supplemented through the use of automated interlibrary loan services with libraries throughout the United States.

As part of the Indiana University Library System, the dental school library's collections are included in the systemwide Web-based catalog, IUCAT. IUCAT contains the collections of all of the IU Libraries, including the Indiana University School of Medicine Ruth Lilly Medical Library, the Ruth Lilly Law Library, and University Library, all of which are conveniently located on the IUPUI campus. These libraries maintain extensive print and electronic resource collections in subjects ranging from anthropology to zoology and in combination with the School of Dentistry Library work cooperatively to meet the information needs of faculty, staff, and students.

In addition to the IUCAT online catalog, faculty, staff, and students have access to a number of subject-specific databases and full-text electronic resources. The National Library of Medicine's MEDLINE® database, which includes worldwide coverage of dental journal literature, is available in three versions. Other available selected databases include the Cochrane Library, Lexicomp Online for Dentistry, LexisNexis Academic, Micromedex® 2.0, OvidSP, Science Citation Index Expanded, Web of Knowledge, and WorldCat. Full-text E-book and E-journal resources are available through services such as Journals at Ovid, ScienceDirect, Wiley Online Library, Access Medicine®, Clinical Key, Stat!Ref®, and VisualDx. The library's nine public access computer workstations provide access to library and campus-wide accessible electronic resources. Wireless as well as wired connections are also available throughout the

library for laptop and mobile users. Off-campus access to most databases and electronic resources is available through the IUPUI Virtual Private Network (VPN), which allows authorized users with computers in remote locations to be recognized as if they were on campus.

The library's media collection contains interactive CD-ROMs, DVDs, slides, audiocassettes, and videotapes dealing with dentistry.

The library also houses a large collection of historic materials, including an archival collection focusing on the history of the Indiana University School of Dentistry and the dentistry, dental hygiene, and dental assisting professions.

Additional details are available on the [Dental Library Web site](#).

Office of Diversity, Equity, and Inclusion

The mission of the Office of Diversity, Equity, and Inclusion at the Indiana University School of Dentistry is to develop strategies to improve the diversity of the oral health care workforce and to advance the quality of oral health in Indiana. The office has developed activities to expand the pipeline of qualified underrepresented and disadvantaged applicants for the IU dental school's programs. The director and staff continue to work to increase education and awareness of oral health issues for students, faculty, and staff. The office strives to create structured programs to provide mentoring, academic enrichment, and experiential opportunities for students. It also endeavors to establish and enhance relationships with funding agencies, educational institutions, and other health professionals. For more information about the services provided, contact the office at (317) 274-6573; dsdivsty@iu.edu.

Financial Assistance

Federal financial loans may be obtained for all educational programs on the basis of need through the IUPUI Office of Student Financial Services: Campus Center 250A, 420 University Boulevard, Indianapolis, IN 46205-5145; Web site www.iupui.edu/finaid.

Health Service

Health insurance coverage is mandatory for all IUSD students. Except for students who submit an approved waiver through Aetna, all IUSD students must carry the IUSD-approved [health insurance plan](#).

Limited outpatient care on a fee-for-service basis is available to all full-time IUPUI students during weekdays through the campus-based [IUPUI Health Services](#). For fee-for-service care after hours and on weekends, students should seek emergency treatment at Eskenazi Hospital, located immediately west of campus, or at another hospital or urgent care facility in the city. Emergency outpatient care is provided to students at no charge in the event of an injury occurring during performance of a training-related task within the dental school or at an associated facility.

IUSD students are required to be immunized for protection against a number of infectious diseases, and most of these immunizations must be completed before the student matriculates. Details pertaining to specific immunization requirements are sent by the School of Dentistry to all incoming students.

Housing

IUPUI offers excellent on-campus housing opportunities. To request information about university housing or a housing application, contact the [IUPUI Office of Housing and Residence Life](#): 415 Porto Alegre Street, Suite 150, Indianapolis, IN 46202; (317) 274-7200.

Academic Policies & Procedures

The academic policies and procedures that follow pertain to students enrolled in the Doctor of Dental Surgery (DDS) program, although similar academic standards apply to students earning degrees in dental hygiene and certificates in dental assisting. For more information about dental hygiene and dental assisting academic policies and procedures, contact the program directors (see Contact Information).

While every attempt is made to provide accurate and current information in this bulletin, Indiana University reserves the right to change without notice statements in the bulletin series concerning rules, policies, fees, curricula, courses, or other matters.

- Attendance
- Counseling
- Academic Progress

Attendance

The D.D.S. attendance policy for courses in which students are enrolled will be left to the discretion of the course/module directors. The syllabus must clearly state the attendance policy for each course/module. As professionals, students are expected to be present *and* punctual for classes and clinical activities. Except for extenuating circumstances students are prohibited from missing any type of assessment. If a student feels that an absence during an assessment is unavoidable, the student must provide detailed documentation to the assistant dean for Admissions and Student Affairs. If the assistant dean for Admissions and Student Affairs determines that the request is valid, the course/module directors will be notified of such, and the student will be required to make arrangements for an alternate assessment date(s).

Anticipated Absence

It is understood that students must occasionally be absent from class for unavoidable personal reasons. In such instances it is the responsibility of the student to notify the course/module director to arrange for missed assignments when the necessity for an absence becomes known to the student. A student who is absent is accountable to course/module directors for any negative impact on grades, according to the attendance policy documented in the syllabus of the course/module director.

Participation in Student and Service Organizations

Students who are in good academic standing (e.g., are not on probation and have demonstrated no professional misconduct) are encouraged to participate in local, regional, or national student organizations (e.g., American Dental Association, American Dental Education Association, American Association for Dental Research) or in

service-related activities for organized dentistry or the School of Dentistry. Students intending to engage in such activities should inform the Office of Admissions and Student Affairs of an anticipated absence as soon as it becomes known and obtain permission from appropriate course/module directors and other faculty prior to participation.

Attendance and Religious Holidays

Indiana University respects the right of all students to observe personal religious holidays and will make reasonable accommodation, upon request, for such observances. Any student who is unable to attend class or participate in any examination, study, or course requirement on such days due to his or her religious beliefs will be given the opportunity to make up the work that was missed or do alternative work that is intrinsically no more difficult than the original assignment or examination. If possible students should notify the Office of Admissions and Student Affairs of known conflicts in a timely manner so that any potential accommodations can be arranged. It should be noted that while campus policy requires faculty to make reasonable accommodations for missed assignments or examinations for religious holidays, it is *not* campus policy for faculty to make accommodations when students wish to travel to share a holiday with family and/or friends.

Unanticipated Absence

In the event of an unanticipated absence (e.g., illness) it is the responsibility of the student to contact the Office of Admissions and Student Affairs as early as possible to report the absence. The Office of Admissions and Student Affairs will contact all course/module directors to make them aware of the absence and its general nature. It is the responsibility of the student to notify course/module directors and other involved faculty of an absence in a timely fashion to arrange for missed assignments or make-up examinations. A student who is absent and fails to communicate with course/module directors in a timely manner regarding missed assignments is accountable for any negative outcomes based on the attendance policy of the course/module director.

Clinical Attendance

Clinic attendance levels will be determined by and monitored by the Office of Clinical Affairs. Students falling below the required level of productivity and participation are subject to disciplinary action, up to and including dismissal.

When students are accused of or caught violating provisions of the Clinical Manual, the associate dean of Clinical Affairs has the right to suspend students from all clinical activity pending final results of the professional conduct and appeals processes. Given that violations of policies and procedures governing the clinics can impact patient health, impair student safety and impact school liability, clinical suspensions are not subject to appeal. However, before the associate dean of Clinical Affairs can suspend students from all clinical activity, he or the assistant dean for Admissions and Student Affairs must interview them to hear their explanation of the problem(s).

Extraordinary Absence

If a student is in need of an extended leave of absence due to illness, legal issues, etc., official detailed documentation must be presented to the assistant dean for Admissions and

Student Affairs detailing the reason for the leave. A leave of absence is generally requested if the student anticipates missing more than 15 consecutive days of school. Contingent upon the reason and the number of days missed the Progress Committee will consider whether or not a student should be promoted, retained, or dismissed.

Lecturer Absence Policy (approved by IUSD Faculty Council June 24, 2011)

If a scheduled lecturer is not present within five minutes of the scheduled start of the class students should contact the department of the course for which the lecture is being provided. If the lecturer is not present within 15 minutes of the scheduled beginning of class and students have not been informed to remain, class is cancelled and students may leave. In this case the class president or the class president's designee should contact the Office of Academic Affairs (278-1194 or 278-0106).

Counseling

Students are invited and encouraged to call upon the dean, associate deans, or any other faculty member for counseling or advice. Faculty advisors are assigned to assist students who experience academic difficulty. IUPUI's [Counseling and Psychological Services](#) (CAPS) has professional staff available to provide individual or group counseling.

Academic Progress

GRADES

A student's grade in each course will be determined by the combined results of examinations, classroom work, achievement, and clinical performance. The quality of the student's work will be indicated by one of the following grades: A, B, C, F (Failure), S (Satisfactory), P (Pass), R (Deferred), and I (Incomplete), and (+) and (-) grades may be used at the option of the course director. If a student is required to repeat a course due to a failing grade, the student must re-enroll in the course and pay a fee.

Students must earn at least a 2.0 cumulative grade point average by the conclusion of their first four semesters in dental school (excluding summers) in order to continue their enrollment in the IUSD D.D.S. program.

INCOMPLETES

A student who misses a final examination and who has had a passing grade up to that time is given a temporary grade of Incomplete if the instructor has reason to believe the absence was beyond the student's control.

If a student is not in attendance during the last several weeks of a semester, the instructor may report a grade of I (indicating the work is satisfactory at the end of the semester but has not been completed) if the instructor has reason to believe the absence was beyond the student's control; if not, the instructor shall record a grade of F. A grade of I must be removed within one year of the date of its recording, or it will automatically be changed to an F by the university registrar. A grade of I may be removed if the student completes the work within the time limit or if the dean of the School of Dentistry authorizes the change of the I to W (withdrawal from course). Students may not reenroll in a course in which they have a grade of I.

PROBATION

Criteria for probationary status:

1. A semester grade point average below 2.0, but all courses were passed.
2. Failure in a course module that does not result in a failing grade in the entire course.
3. Failure in a single course in a semester.
4. Reenrollment following a period of suspension.
5. Unacceptable clinical progress or participation.

PROMOTION

No dental student shall be promoted to a succeeding semester in good standing without a minimum 2.0 overall grade point average.

CERTIFICATION FOR GRADUATION

1. A dental student must have been enrolled for a minimum of eight separate semesters, exclusive of summer sessions or repeated courses or semesters. The dental student must have passed (or been excused from) all required courses, including two separate semesters of the fourth-year curriculum.
2. A dental student must have achieved a minimum overall grade point average of 2.0.
3. A dental student must pass Parts I and II of the National Board Dental Examination.

LEAVE OF ABSENCE

1. No student may be granted a leave of absence solely because of poor academic performance.
2. All student leaves, as well as the conditions for reinstatement following such leaves, must be approved by the dean of the dental school (or the dean's designee).
3. Written certification shall be required of the appropriate person or agency confirming the need for a leave of absence and for the date concluding a leave of absence.

Similar academic standards apply to dental hygiene and dental assisting students.

SUSPENSION

No dental student who has been suspended may be graduated with honors or receive an award at the honors ceremony.

Suspension from classes, clinics, or the entire School of Dentistry is a possible outcome of unprofessional behavior or academic misconduct. Students suspended for any period of time from any IUSD activity will be placed on probation once they have returned to school.

DISMISSAL

Academic dismissal will be considered by the IUSD Faculty Council executive committee in consultation with the dean upon a recommendation from the progress committee. Students considered for dismissal will be granted the opportunity to appear personally before the progress committee.

Criteria for dismissal:

- Failure to comply with the policy on attendance.
- Failing grades in a least 50 percent of the credit hours in which the student is enrolled.
- Multiple failures in courses, modules, and/or on comprehensive semester examinations.
- Repeated instances of a semester grade point average below 2.0.
- Cumulative grade point average below 2.00 at the conclusion of the first four semesters of the program.
- Lack of acceptable progress, in the judgment of the faculty, toward degree requirements.
- Failure to demonstrate professional growth.

WITHDRAWALS

The faculty reserves the right to request the withdrawal of students whose conduct, health, or academic performance would appear to render them unfit for the continuation of a dental education. In cases in which students discontinue attendance without officially withdrawing, the instructor shall report the grade of F.

Faculty

- Full-Time
- Part-Time
- Emeriti

Full-Time

- Adams, Brooke N., D.D.S. (Indiana University, 2005), Clinical Assistant Professor of Operative Dentistry
- Agarwal, Parul, D.D.S. (University of Detroit Mercy, 2006), B.D.S. (Manipal University [India], 1999), Clinical Assistant Professor of Prosthodontics
- Alderson, Sheri R., B.S. (Indiana University, 1979), Clinical Lecturer in Dental Assisting
- Ando, Masatoshi, Ph.D. (Osaka Dental University [Japan], 1993), D.D.S. (Osaka Dental University, 1989), Associate Professor of Preventive and Community Dentistry
- Babler, William J., Ph.D. (University of Michigan, 1977), Acting Chairperson of Oral Biology; Associate Professor of Oral Biology
- Baumgartner, Michael P., D.D.S. (Indiana University, 1971), Clinical Assistant Professor of Pediatric Dentistry
- Bennett, Daniel S., D.D.S. (Indiana University, 1979), Visiting Clinical Assistant Professor and Assistant Director of Clinics, Comprehensive Care Clinics
- Bennett, Jeffrey D., D.M.D. (University of Pennsylvania, 1984), Chairperson of Oral Surgery and Hospital Dentistry; Professor of Oral and Maxillofacial Surgery
- Blanchard, Steven B., D.D.S. (University of Michigan, 1980), Associate Professor of Periodontics; Director of Graduate Periodontics
- Bottino, Marco, Ph.D. (University of Alabama at Birmingham, 2010), D.D.S. (Universidade Paulista [Brazil], 2001), Assistant Professor of Dental Biomaterials
- Brown, David T., D.D.S. (The Ohio State University, 1983), Chairperson of Restorative Dentistry; Professor of Prosthodontics

- Browning, William D., D.D.S. (University of Michigan, 1974), Indiana Dental Association Endowed Chair in Restorative Dentistry; Professor of Restorative Dentistry
- Bruzzaniti, Angela, Ph.D. (University of Melbourne [Australia], 1997), Assistant Professor of Oral Biology; Adjunct Assistant Professor of Anatomy (School of Medicine)
- Capin, Oriana Reis, D.D.S. (Faculdade de Odontologia da Universidade Federal da Bahia [Brazil], 1993), Visiting Clinical Assistant Professor of Operative Dentistry
- Capps, Patricia A., M.S. (Ball State University, 1997), Clinical Associate Professor of Dental Assisting; Director of Distance-Learning Dental Assisting
- Carlson, Timothy J., D.D.S. (Indiana University, 1978), Professor of Operative Dentistry; Director of Comprehensive Care Clinic
- Chin, Judith R., D.D.S. (Indiana University, 1994), Associate Professor of Pediatric Dentistry
- Cho, Sopanis D., D.D.S. (Indiana University, 2003), D.D.S. (Mahidol University [Thailand], 1996), Clinical Assistant Professor of Operative Dentistry
- Chu, Tien-Min Gabriel, Ph.D. (University of Michigan, 1999), D.D.S. (Kaohsiung Medical College [Taiwan], 1989), Professor of Dental Biomaterials; Director of Dental Biomaterials Graduate Program
- Cook, Norman Blaine, D.D.S. (University of the Pacific, 1981), Clinical Associate Professor of Operative Dentistry; Director of Operative Dentistry Graduate Program
- Cox, Janice E., M.S.L.S. (University of Kentucky, 1970), Librarian
- Dean, Jeffrey A., D.D.S. (Indiana University, 1983), Ralph E. McDonald Professor of Pediatric Dentistry; Professor of Pediatric Dentistry; Professor of Orthodontics
- Dixon, Steven E., D.D.S. (Indiana University, 1973), Clinical Assistant Professor of Operative Dentistry; Manager of Comprehensive Care Clinics; Director of Comprehensive Care Clinic
- Edwards, Paul C., D.D.S. (University of Toronto [Canada], 1992), Professor, Department of Oral Pathology, Medicine, and Radiology
- Ehrlich, Ygal, D.M.D. (Hebrew University [Israel], 1991), Clinical Assistant Professor of Endodontics
- Ford, Pamela T., M.S.W. (University of Southern Indiana, 2003), Clinical Assistant Professor of Dental Assisting; Director of Dental Assisting
- Galli, Dominique M., Ph.D. (Ludwig-Maximilians-Universität München [Germany], 1990), Associate Professor of Oral Biology
- Garetto, Lawrence P., Ph.D. (Boston University, 1984), Professor of Oral Medicine; Adjunct Professor of Cellular and Integrative Physiology (School of Medicine)
- Ghoneima, Ahmed, Ph.D. (Azhar University [Egypt], 2005), Visiting Assistant Professor of Orthodontics; Director of Orthodontic Imaging Laboratory
- Goldblatt, Lawrence I., D.D.S. (Georgetown University, 1968), Dean Emeritus of Indiana University School of Dentistry; Professor of Oral Pathology

- Gonzalez, Theresa A., D.D.S. (Indiana University, 1994), Clinical Assistant Professor of Operative Dentistry; Director of Comprehensive Care Clinic
- Gossweiler, Ana G., D.D.S. (Indiana University, 2001), Research Associate in Preventive and Community Dentistry
- Gregory, Richard L., Ph.D. (Southern Illinois University, 1982), Interim Associate Dean for Research; Director of Student Research; Director of Ph.D. Program; Professor of Oral Biology; Professor of Preventive and Community Dentistry; Professor of Pathology and Laboratory Medicine (School of Medicine)
- Guba, Christianne J., D.D.S. (Indiana University, 1980), Associate Dean for Academic Affairs; Associate Professor of Operative Dentistry
- Hara, Anderson T., Ph.D. (State University of Campinas [Brazil], 2004), D.D.S. (State University of Campinas, 1997), Assistant Professor of Preventive and Community Dentistry
- Haug, Steven P., D.D.S. (State University of New York at Stony Brook, 1984), Professor of Prosthodontics
- Jackson, Richard D., D.M.D. (University of Louisville, 1979), Associate Professor of Preventive and Community Dentistry
- John, Vanchit, D.D.S. (Indiana University, 1998), B.D.S. (Madras Dental College [India], 1987), Chairperson of Periodontics and Allied Dental Programs; Associate Professor of Periodontics
- Jones, James E., Ph.D. (Universidad Empresarial [Costa Rica], 2003), Ed.D. (Indiana University, 1993), D.M.D. (University of Louisville, 1978), Chairperson of Pediatric Dentistry; Professor of Pediatric Dentistry
- Katona, Thomas R., D.M.D. (University of Pennsylvania, 1982), Ph.D. (University of Pennsylvania, 1981), Associate Professor of Orthodontics
- Kirkup, Michele L., D.D.S. (Indiana University, 2006), Clinical Assistant Professor of Prosthodontics
- Klene, Carrie A., D.D.S. (Indiana University, 2004), Clinical Assistant Professor of Oral and Maxillofacial Surgery
- Kowolik, Joan E., B.D.S. (University of Edinburgh [Scotland], 1975), Associate Professor of Pediatric Dentistry; Director of Pediatric Dental Program
- Kowolik, Michael J., Ph.D. (University of Edinburgh [Scotland], 1984), B.D.S. (University of Edinburgh, 1973), Associate Dean for Graduate Education and Global Engagement; Professor of Periodontics; Affiliate Investigator (Center for Bioethics)
- Kramer, Kyle J., D.D.S. (Indiana University, 2006), Visiting Clinical Assistant Professor of Dental Anesthesiology
- Krushinski, Cheryl A., D.D.S. (Indiana University, 1987), Assistant Professor of Oral Diagnosis
- Kula, Katherine S., D.M.D. (University of Kentucky, 1977), Chairperson of Orthodontics and Oral Facial Genetics; Professor of Orthodontics
- Legan, Joseph J., D.D.S. (Western Reserve University, 1959), Clinical Associate Professor of Endodontics
- Levon, John A., D.D.S. (Indiana University, 1978), Clinical Assistant Professor of Prosthodontics; Director of Graduate Programs in Prosthodontics and Maxillofacial Prosthetics
- Leyvand, Irina L., D.D.S. (Moscow Medical Stomatological University [Russia], 1976), Clinical Assistant Professor of Problem-Based Learning
- Lippert, Frank, Ph.D. (University of Bristol [United Kingdom], 2004), Assistant Professor of Preventive and Community Dentistry
- Liu, Shih-Yao, Ph.D. (Baylor College of Dentistry, 2008), D.D.S. (Taipei Medical University [Taiwan], 1999), Assistant Professor of Orthodontics
- Martínez-Mier, E. Angeles, Ph.D. (Indiana University, 2000), D.D.S. (Universidad Nacional Autónoma de México [Mexico], 1989), Interim Chairperson of Preventive and Community Dentistry; Associate Professor of Preventive and Community Dentistry; Director of Division of Community Dentistry
- Maupomé-Carvantes, Gerardo, Ph.D. (University of London, The London Hospital Medical College and University [United Kingdom], 1991), B.D.S. (Universidad Nacional Autónoma de México, 1985), Professor of Preventive and Community Dentistry
- Maxwell, Lisa L., M.S.M. (Indiana Wesleyan University, 2012), Interim Director of Dental Hygiene; Visiting Clinical Assistant Professor of Dental Hygiene
- Meadows, Melinda L., M.S. (Indiana University, 2004), Director of Program and Institutional Assessment; Clinical Associate Professor of Pediatric Dentistry
- Moeller, Matthew C., D.D.S. (Indiana University, 1985), Clinical Assistant Professor of Operative Dentistry; Director of Comprehensive Care Clinic
- Oldham, James M., D.D.S. (Indiana University, 1983), Clinical Assistant Professor of Operative Dentistry; Director of Comprehensive Care Clinic
- Parks, Edwin T., D.M.D. (University of Kentucky, 1981), Professor of Dental Diagnostic Sciences; Director of Radiology Clinics
- Peterson, Melanie R., D.M.D. (University of Louisville, 1980), Assistant Dean for Student Affairs; Director of Admissions; Clinical Associate Professor, Department of Oral Surgery and Hospital Dentistry
- Phillips, Sally I., B.S. (Indiana University, 1981), Clinical Lecturer in Dental Hygiene
- Pinney, Neil R., D.D.S. (Indiana University, 1981), Clinical Assistant Professor of Operative Dentistry; Director of Comprehensive Care Clinic
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