

Bulletin 2005–07

Indiana University



School of Dentistry

Indianapolis Campus

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INDIANA UNIVERSITY BULLETIN

OFFICIAL SERIES (USPS 262440)

ISSN 0-888-5338

Periodicals postage paid at Bloomington, Indiana. Published fifteen times a year (one time in March, October, and November; two times in December; three times in June; and seven times in August) by Indiana University from the Office of Creative Services, Poplars 721, 400 E. Seventh Street, Bloomington, IN 47404-3085. POSTMASTER: Send address changes to INDIANA UNIVERSITY MAIL ROOM, Ashton-Weatherly Lounge, 400 N. Sunrise Drive, Bloomington, IN 47408.

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School of Dentistry

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 University Medical Center. 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 many countries of the world. 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 undergraduate programs in dental support fields at several IU campuses. A one-year program for dental assistants and a three-year associate degree program for dental hygienists* are offered at the Indianapolis, Fort Wayne, Gary, and South Bend campuses. A four-year bachelor's degree program for dental hygienists is offered at Indianapolis and Fort Wayne. A two-year associate degree program in dental laboratory technology is offered at Fort Wayne only. Students interested in undergraduate programs should check with a counselor on the campus they will attend for specific requirements, which may vary. In addition, under the D.D.S. program at the School of Dentistry, it is possible to earn a B.A. degree in cooperation with the Indiana University College of Arts and Sciences. Other universities in Indiana also offer a combined degree program. In all instances, the bachelor's degree is awarded by the undergraduate school attended, not by the IU School of Dentistry. Information concerning these programs is available on the IU School of Dentistry Web site (www.iusd.iupui.edu), or may be obtained by writing to the appropriate address listed on page 40 of this bulletin.

This bulletin describes the opportunities available at IUSD and outlines the

requirements for admission to and completion of its programs.

Equal Opportunity/Affirmative Action Policy

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 Affirmative Action office on each campus monitors the university's policies and assists individuals who have questions or problems related to discrimination.

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 58,000 volumes on dentistry as well as the basic sciences and selected medical specialties. It maintains subscriptions to 474 professional print and 205 online journal titles. Its rich collection of over 26,000 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 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 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 databases include Lexis-Nexis Academic Universe, Micromedex Pharmacological Database, Science Citation Index Expanded, Web of Science, WilsonWeb, and WorldCat. Full-text book and journal resources are available through services such as Books at OVID, Journals at OVID, Science Direct, Blackwell's Synergy, Harrison's Online, and Stat!Ref. The library's nine public access computer workstations provide access to library and campuswide accessible electronic resources. Wireless as well as wired connections are also available throughout the library for laptop users. Remote access to most databases and electronic resources is available if the connection is made through the IUPUI campus computer network or with an authorized IUPUI NT domain ID and password.

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.

The Dental Library's Web address is www.iusd.iupui.edu/Depts/Lib.

Dental Clinics

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, the

*Only five dental hygiene programs are available in Indiana—IU's four programs and one offered by the University of Southern Indiana in Evansville.

Regenstrief Health Center (all at the Medical Center on the IUPUI campus), and at two off-campus sites.

Student Diversity Support

The IUSD Office of Student Diversity Support offers pre dental academic counseling and a wide range of other services to minority applicants and students (African American, Hispanic American, and Native American). For more information about the services provided by this office, contact Traci Adams, the director of Student Diversity Support, (317) 274-7052 or tadams@iupui.edu.

Living Facilities

To request information about university housing or a housing application, write to the director of Housing and Residence Life, Indiana University–Purdue University Indianapolis, 405 Porto Alegre Street, Suite 170, Indianapolis, IN 46202-5816; or call (317) 274-7200 or (800) 631-3974. Additional information can be found at www.life.iupui.edu/housing. The dental school's Student Records and Admissions Office maintains a file containing off-campus rental information and the names of students seeking roommates.

Student Health Service

Health insurance coverage is mandatory for all IUSD students. Student Health Service provides limited outpatient care on a fee-for-service basis to all full-time students at IUPUI. Outpatient care is provided by the Student Health Service during weekdays and by Wishard Memorial Hospital at night and on weekends. 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.

Tuition 2005-2006

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

	Indiana Resident (Per Year)	Nonresident (Per Year)
Doctor of Dental Surgery Degree Program ¹	\$18,207.00	\$42,770.90
Associate Degree in Dental Hygiene		
—First Year, New Students ²	5,437.50	15,420.75
—First Year, Continuing Students ³	4,593.60	15,420.75
—Second Year, New Students ²	4,687.50	13,293.75
—Second Year, Continuing Students ³	3,960.00	13,293.75
Dental Assisting Certificate Program		
—New Students ²	5,812.50	16,484.25
—Continuing Students ³	4,910.40	16,484.25
Bachelor's Degree in Public Health		
Dental Hygiene		
—New Students ²	187.50 per credit hour	531.75 per credit hour
—Continuing Students ³	158.40 per credit hour	531.75 per credit hour
Master's Degree Programs ¹		
—First Two Years	18,207.00	42,770.90
—After Second Year	214.95 per credit hour	620.40 per credit hour
Ph.D. Degree Program	214.95 per credit hour	620.40 per credit hour
Pediatric Dentistry Residency ¹	18,207.00	18,207.00
Oral and Maxillofacial Surgery Residency	214.95 per credit hour	214.95 per credit hour
Maxillofacial Prosthetics Residency ¹		
—First Two Years	18,207.00	42,770.90
—After Second Year	214.95 per credit hour	214.95 per credit hour
General Practice Residency	no tuition	no tuition
IU Admission Application ⁴	50.00	50.00

¹Advance payment of \$500.00 is required after a student has been accepted (\$1,000.00 for graduate orthodontic students). This advance payment is nonrefundable, but it is applicable toward tuition fees.

²Fee assessment for undergraduate students enrolling for the first time on any IU campus.

³Fee assessment for undergraduate students whose semester of entry on any IU campus occurred prior to the 2003 summer sessions.

⁴This fee is paid only once, is nonrefundable, and is not applied to other fees. A student applying for admission to the School of Dentistry who has never attended Indiana University as a regularly admitted student (on any IU campus) will be required to pay this fee. The foreign admission application fee is \$60.00 (U.S. dollars in check or money order).

Summer Session¹	Indiana Resident	Nonresident
Doctor of Dental Surgery Degree Program		
—First Year	438.65	1,249.55
—Second Year	546.13	1,559.75
—Third Year	660.61	1,876.96
—Fourth Year ²		
Associate Degree in Dental Hygiene		
—New Students ³	1,269.35	3,334.85
—Continuing Students ⁴	1,094.75	3,334.85
Graduate Dentistry Programs ⁵		

¹IUPUI Activity and/or Technology fees are included.

²Dental students who wish to use the dental school clinics and laboratories from the beginning of the summer session following their fourth year until the state dental board examination may do so at the cost of one credit hour and the IUPUI Activity Fee. Fourth-year dental students who have not completed their graduation requirements by graduation day but wish to continue in the program are required to enroll in 12 credit hours at the current tuition rate for that year (e.g., summer session 2006, including IUPUI Activity Fee: \$2,595.16 residents, \$7,460.56 nonresidents).

³Fee assessment for undergraduate students enrolling for the first time on any IU campus.

⁴Fee assessment for undergraduate students whose semester of entry on any IU campus occurred prior to the summer sessions of 2003.

⁵Fees vary, depending on individual programs.

Textbook, Instrument, and Other Ancillary Fees¹

	First Year	Second Year	Third Year	Fourth Year
Dental Students				
Textbooks	\$4,000.00	\$2,200.00	\$1,200.00	—
Instrument Purchase and Rental	7,164.82	8,172.48	2,993.00	2,600.00
Computer	2,082.00	—	—	—
IUPUI Activity Fee	171.88	171.88	171.88	171.88
IUPUI Athletic Development Fee	68.20	68.20	68.20	68.20
National Board Application	—	—	—	165.00 (written version) 290.00 (electronic version)
Dental Hygiene Students				
Textbooks	1,050.00	300.00		
Instrument Purchase and Rental	963.44	552.00		
Uniforms	150.00	—		
Laboratory	109.10	—		
IUPUI Activity Fee	171.88	171.88		
IUPUI Athletic Development Fee	68.20	68.20		
IUPUI Technology Fee	354.20	354.20		
National Board Application	—	130.00		
Dental Assisting Students				
Textbooks	564.50			
Instrument Purchase and Rental	459.26			
Uniforms	131.00			
IUPUI Activity Fee	171.88			
IUPUI Athletic Development Fee	68.20			
IUPUI Technology Fee	354.20			
National Board Application	300.00			

¹These 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 (professional society membership dues, graduation photos, state or regional board exam applications, etc.) are contingent upon the individual plans of each student.

See page 18 for instrument rental and/or purchase fees that are assessed for several master's degree programs.

Financial Assistance

Federal financial loans may be obtained for all educational programs on the basis of need through the IUPUI Office of Student Financial Aid Services: CA 147, 425 University Boulevard, Indianapolis, IN 46205-5145; e-mail dentaid@iupui.edu; telephone (317) 278-8477; fax (317) 274-3664; and Web site www.iupui.edu/finaid.

Associations and Societies

The local chapter of the American Student Dental Association (ASDA) is fully recognized by the American Dental Association (ADA), and membership is open to all IUSD dental students. 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.

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

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.

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.

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.

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.

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

Admission Requirements

Predental Counseling Students who want to discuss their academic programs should arrange appointments with predoctoral advisors on their own campus. Nontraditional applicants or applicants with unusual circumstances may request an appointment with the dental school's Student Records and Admissions Office (see page 40 of this bulletin).

Application Procedure Although the current application deadline is December 1, the selection process begins in November, which therefore gives early applicants a decided advantage. Beginning in May 2006, electronic applications to dental school are available through the American Dental Education Association Web site, www.adea.org.

Applicants must also take the Dental Admission Test (DAT), which they may do before submitting the Associated American Dental Schools Application Service (AADSAS) application to IUSD, but IUSD will not grant an invitation for an interview until the school receives an applicant's DAT scores. The DAT can be taken nearly any day of the year at Prometric Candidate Contact Centers throughout the country. Students should take this test only after completing the required chemistry and biology courses. Applicants may request an interpretation of test results from the IUSD Student Records and Admissions Office. Details concerning the DAT may be obtained by writing the American Dental Association, 211 E. Chicago Avenue, Chicago, IL 60611; or by visiting www.ada.org.

Applicants will be invited to the school for a personal interview based upon the status of their application and their academic achievement. Criteria for admission include, but are not limited to, overall grade point average, science grade point average, DAT scores, interviews, recommendations, hours of college credit, degrees received, motivation, exploration of dentistry, manual and artistic skills, character, personality, ethics, and health. Applications from all underrepresented groups are encouraged. Selections are made on an individual basis upon appraisal of the applicant's established record and potential for development.

Bachelor's/Doctoral Combined Degree Program Students admitted to IUSD

after having completed 90 semester hours may apply credit hours earned in their first year in dentistry as electives and at the end of this year earn a bachelor's degree from their undergraduate institution. The combined degree program is offered at many undergraduate institutions across the nation. Students who are interested in this type of program should consult their predoctoral advisor.

Predental Requirements Most students accepted by IUSD attain a bachelor's degree prior to enrollment. The predoctoral 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 predoctoral requirements must be met in order to qualify for admission:

Two semesters or three 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 two 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. Likewise, a minor in anthropology, psychology, sociology, or Spanish is strongly encouraged. All incoming dental students must be familiar with computer usage.

Admission Requirements for the Advanced Standing Program IUSD offers an Advanced Standing Program (ASP) for selected individuals who have received their dental degree from an institution outside the United States or Canada. Upon successful completion of the ASP, the candidate will receive the D.D.S. degree from IUSD. The individualized program ranges in length from one to three years.

Because admission to the ASP is limited by the dental school's available space and resources, IUSD is able to admit no more than five candidates to the ASP each year, and commonly admits only one candidate per year. Applications are accepted only between June 1 and January 1, unless the candidate is a current IUSD faculty member.

When considering candidates for the ASP, the Admissions Committee interviews and gives preference to the following:

- Current IU School of Dentistry faculty
- Current students in or recent graduates from IU School of Dentistry's advanced education programs
- Faculty from other institutions who express interest in faculty openings at IU School of Dentistry
- Other residents of the State of Indiana

Because of the limited nature of this program, nonresidents of the State of Indiana who do not fall into one of the above categories are not eligible for admission.

The following criteria are used in the selection process, and the Admissions Committee will consider only those candidates for whom all the information is available:

- Successful completion of National Board Dental Examination Part 1
- Results from an interview with Admissions Committee members
- Evaluation of dental transcripts
- Two letters of recommendation (one personal and one professional)
- TOEFL test of English language proficiency as required by Indiana University for applicants whose first language is not English

An individualized curriculum is designed for each candidate who is admitted to the ASP, based upon an assessment of the candidate's previous education, training, experience, and demonstrated competencies. This assessment may include the following:

- Written and practical examinations
- Examples of technique work
- Other information considered by the faculty to be useful in its deliberation

Coordinated Curriculum for Doctor of Dental Surgery and Master of Public Health Degrees In conjunction with the IU School of Medicine Department of Public Health, IUSD offers the option of a dual D.D.S./Master of Public Health (M.P.H.) degree. To examine the curriculum for the D.D.S./M.P.H. degree, visit the Department of Public Health's Web site at www.pbhealth.iupui.edu (under Academic Programs).

Academic Information

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.

Grades A student's grade in each course will be determined by the combined results of examinations, classroom work, and clinical performance. The quality of the student's work will be indicated by one of the following grades: A, B, C, D, F (Failure), S (Satisfactory), P (Pass), R (Deferred), and I (Incomplete). A failure requires repetition of the course; failure of a core course (i.e., one that carries a large number of credit hours) may require repetition of the entire academic year. Plus or minus grades may be assigned by faculty members at their discretion.

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 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.

Counseling Students are invited and encouraged to call upon the dean, associate deans, or any other faculty or staff member for counseling or advice. The IUSD faculty advisor program has proven effective in assisting students who experience academic and personal problems.

Attendance Students must attend the courses in which they are enrolled. Discipline and responsibility are fundamental to the practice of dentistry. A policy requiring attendance ensures that each student will obtain maximum exposure to available lectures and clinical and laboratory experiences. Students are expected to take advantage of each opportunity to learn as a demonstration of their responsibility to their patients and their commitment to the highest professional standards.

Individual departments establish attendance requirements for their classes and clinics and acquaint the students with those requirements through course outlines and statements of objectives. Instructors track class attendance, and absenteeism is reflected in semester grades and clinic privileges. Repeated abuse of attendance policies may be taken into consideration by the semester promotion committees.

Students are expected to be prompt for all patient appointments. If cancellation or delay of an appointment is unavoidable, the student must notify the patient or the assigned clinic.

Probation

Criteria for probationary status:

1. Failure of any course.
2. A semester grade point average below 2.0.
3. Failure in a module in a course in which failure does not result in a failing grade for the entire course.
4. Reenrollment following a period of suspension.
5. Unacceptable clinical progress or participation.

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 upon a recommendation from the progress committee. Students considered for dismissal will be granted the opportunity to appear personally before the progress committee.

A distinction is intended herein between *probation-earned*, meaning that academic performance has caused this status to be assessed for a given semester; and *probation-continued*, meaning that this status was not assessed for that semester but has not been removed from a prior assessment.

Criteria for dismissal:

1. Failure to comply with the policy on attendance.
2. A grade of F in a combined total of 50 percent or more of the semester credit hours in which the student is enrolled.
3. Multiple failures in courses, modules, and/or on comprehensive semester examinations.
4. Repeated instances of a semester grade point average below 2.0.
5. Cumulative grade point average below 2.00 at the conclusion of the first four semesters of the program.
6. A lack of acceptable ethical or professional behavior (e.g., academic dishonesty, nonattendance to clinical duties, neglect of attention or responsibility to assigned patients).
7. A lack of progress toward degree requirements as judged by the faculty.

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. Transfer dental students and dental students with advanced standing may be given credit for equivalent enrollment in other schools.
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 Policy

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.

D.D.S. Courses, 2005–2006

The figures given in parentheses with “cr.” indicate credit hours.

First-Year Curriculum

T501-T502 Critical Analysis of Clinical Problems (3-6 cr., 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, and subsequently discuss their findings while applying them to the case problem.

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.

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.

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.

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.

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.

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.

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.

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.

Second-Year Curriculum

T601-T602 Critical Analysis of Clinical Problems (3-6 cr., 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.

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.

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.

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.

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.

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.

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.

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.

Third-Year Curriculum

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.

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.

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.

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.

T797-T798 Comprehensive Care Clinic 3rd Year (2-2 cr.) Management of the dental patient's clinical comprehensive treatment from diagnosis and treatment planning through maintenance. Student participation in rounds and a variety of clinical experiences.

Fourth-Year Curriculum

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.

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.

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.

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.

Special Clinics

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

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.

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.

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.

Allied Dental Programs

Dean and Professor Goldblatt
Chairperson of Periodontics and Allied Dental Programs and Professor Hancock

Dental Hygiene

Director and Associate Professor Young
Chairperson of Periodontics and Allied Dental Programs and Professor Hancock

Professors Olson, Williamson, Zunt
Clinical Professor Mallatt

Associate Professors Larsen, Schaaf, Summerlin

Clinical Associate Professors Hazelrigg, Rettig

Assistant Professor Rackley

Clinical Assistant Professors

J. Blanchard, Coan, Hudson, Hughes, Kim, Niemann, J. Oldham, Stump

Clinical Lecturers Bantle, Camden, Fabiani, Hardwick, Leach, Maxwell, Parsley, Pavolotskaya, S. Phillips, Querry, Reed, Rinehart, Sayman, S. Schafer, W. Smith, Townsend

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

Associate of Science Degree

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

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

The graduate will be prepared to:

1. apply a professional code of ethics in all endeavors;
2. adhere to state and federal laws, recommendations, regulations, and safety practices in the provision of dental hygiene care;
3. provide dental hygiene care to promote patient/client health and wellness using critical thinking and problem solving in the provision of

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

Admission Requirements

Required prerequisite courses may be taken at any accredited college or university if they are listed as approved courses by the Student Records and Admissions Office at the Indiana University School of Dentistry (see the last page of this bulletin for the address). A listing of currently approved courses

can also be accessed at the following Web address: www.iusd.iupui.edu/depts/EDU/sa/preindiana.htm. They include one semester each of English composition, chemistry with laboratory, human anatomy, human physiology, microbiology with laboratory, psychology, sociology, and public speaking, and two semester courses in arts and humanities. Remedial courses may not be used to fulfill this requirement. All applicants must maintain a minimum cumulative college grade point average of 2.0 (on a 4.0 scale) and achieve a minimum course grade of 2.0 (on a 4.0 scale) on all prerequisite courses to be considered for admission to the program. In addition, applicants must earn a 2.7 grade point average in the combined prerequisite science courses (inorganic chemistry, microbiology, human anatomy, and human physiology). Please note that if prerequisite courses are retaken for an improved grade, all course grades will be included in the computed grade point averages. Courses taken at institutions other than Indiana University must show a grade of C or above to be accepted as transfer credit by Indiana University. The required science courses must be completed by the end of the spring semester of the year in which the applicant applies to enter the program, and preference will be given to students who have completed all required courses by the end of that spring semester. Required science courses must have been completed within the past seven years. Questions about course work that does not meet these time limits should be directed to the Student Records and Admissions Office at IUSD.

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

All applications and supporting materials are to be submitted by February 1. Applicants who have previously applied must submit a new application when reapplying.

Applications to the IUSD dental hygiene program may be obtained by contacting the dental school's Student Records and Admissions Office or from the Web site. Requirements and forms for admission to the IUSD dental hygiene program are specific to this program only and are not acceptable for admission to other dental hygiene programs in the state. Applications for admission to any other Indiana dental hygiene program must be directed to those programs and follow their prescribed procedures. (See the last page of this bulletin for a list of dental hygiene programs offered on other campuses.) **All potential applicants are**

advised to consult the School of Dentistry's Student Records and Admissions Office or Web site for updates or changes in dental hygiene admissions policies that may occur after publication of this document.

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

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

PRE-DENTAL HYGIENE (exact course sequencing may vary depending on course schedules and individual pace of enrollment)

English Composition
Sociology
Arts and Humanities
Chemistry with Laboratory
Human Anatomy

Arts and Humanities
Public Speaking
Psychology
Human Physiology
Microbiology with Laboratory

DENTAL HYGIENE (FIRST YEAR)

First Semester

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

Second Semester

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

DENTAL HYGIENE (SUMMER SESSION)

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

DENTAL HYGIENE (SECOND YEAR)

First Semester

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

Second Semester

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

Courses for the Associate of Science Degree

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

H205 Medical and Dental Emergencies (1 cr.) A study in emergency situations in the dental office, including predisposing factors and drugs, and treatment to include the support of the cardiopulmonary system.

H206-H207 General Pathology I and II (1-1 cr.) Mechanisms of disease at the cellular, organ, and systemic levels with special references to specific disease processes; includes general concepts, terminology, and pathology of organ systems.

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

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

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

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

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

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

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

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

H252 Introduction to Evidence-Based Dental Hygiene Care (1 cr.) 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.

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

H303 Radiology (1 cr.) Principles of radiation production, placement of intraoral film, proper exposure and

processing of film, radiation safety, and interpretation of radiographs.

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

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

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

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

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

H344 Senior Hygiene Seminar (2 cr.) Ethics, jurisprudence, and practice management concepts, including a study of state practice acts, dental hygiene employment opportunities, recall systems, and current trends in the dental hygiene profession.

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

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

Bachelor of Science Degree

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

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

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

Admission Requirements

Prerequisites to the public health dental hygiene program include completion of 90 undergraduate semester hours, graduation from an accredited dental hygiene program, satisfactory completion of the National Board Dental Hygiene Examination, and current licensure as a dental hygienist. Accepted students are expected to have basic computer literacy sufficient to participate in Web-based instruction, 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 W. 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 constitute the required core curriculum. In addition to the core courses, students must complete approved elective courses in a selected focus area (e.g., behavioral sciences, education, or basic sciences) to fulfill the 32 semester hour completion requirement of the bachelor's degree.

Core Courses for the Bachelor of Science Degree¹

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

STAT 301 Elementary Statistical Methods (3 cr.) P: Must enroll in lab. A basic introductory statistics course with

applications shown to various fields and emphasis placed on assumptions, applicability, and interpretations of various statistical techniques. Subject matter includes frequency distribution, descriptive statistics, elementary probability, normal distribution, applications, sampling distribution, estimation, hypothesis testing, and linear regression.

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

AHLT Z477 Teaching Methodology in Health Sciences Education (3-5 cr.) P: EDUC P255 Educational Psychology for Middle and Secondary School Teachers or equivalent; EDUC H340 Education and American Culture or equivalent; EDUC M300 Teaching in Pluralistic Society or equivalent. Teaching methods and techniques, and choices of material and equipment, with emphasis on evaluation.

AHLT Z490 Topics in Health Sciences Education (3 cr.) Permission required. Special electives in health sciences education offered by the Health Sciences Education faculty. Prerequisites vary with topic. Honors credit may be available. Students may repeat this course as long as the topic changes each time of enrollment.

DHYG H403 Advanced Community Dental Hygiene (4 cr.) Public health principles including a study of the health care delivery system and preventive public health care at the community level.

DHYG H405 Advanced Dental Science (3 cr.) Review of current literature related to periodontics, oral pathology, preventive dentistry, and the current practices of dental hygiene.

DHYG H402 Practicum in Dental Hygiene Education (4 cr.) P: H403, Z477. Structured practical experience in planning, supervising, coordinating, and evaluating instruction in an educational setting. Emphasis on faculty roles and responsibilities.

¹ Consult the dental hygiene program Web site for the most current information on the dental hygiene bachelor's degree program at www.iusd.iupui.edu/Depts/PA/Dent_Hygiene/default.htm or contact the IUSD dental hygiene program director.

Dental Assisting

Director and Clinical Assistant Professor Ford

Executive Associate Dean, Associate Dean, and Professor C. Miller

Professor Williamson

Associate Professor Schaaf

Clinical Associate Professors Capps, Rettig

Assistant Professor Zitterbart

Clinical Assistant Professors Beard, Moeller, Niemann, J. Oldham, Stump

Clinical Lecturer Alderson

The dental assisting certificate program is composed of 15 mandatory courses encompassing approximately 1,000 hours of lecture, laboratory, and clinical instruction. Students have the option of pursuing a dental assisting certificate on a full-time or part-time basis. Program length for students who enroll full time is one academic year (two semesters), and program length for students who enroll part time is two academic years (four semesters). A maximum of five students can be accepted into the part-time program each year.

In addition to the mandatory courses in the core curriculum, an elective course in expanded restorative dentistry is offered in the summer session immediately following graduation.

The program prepares the graduate to:

1. master and apply knowledge of the basic, behavioral, and dental sciences in assessing and performing dental assisting procedures;
2. communicate effectively with other health care professionals in coordinating and providing care under the direction and supervision of the dentist;
3. apply problem-solving and decision-making skills when assisting with dental health services under the direction and supervision of the dentist;
4. be aware of and responsive to changes in the dental health care delivery system;
5. acquire knowledge and skills to promote and participate in preventive dental care and support oral health through promotion of total health; and
6. comply with state and federal laws governing the practice of dentistry and dental assisting.

Students who successfully complete the program are eligible to take the Dental Assisting National Board Examination.

Admission Requirements

Candidates for admission to the program must be high school graduates with a minimum grade point average of 2.0 (on a 4.0 scale) or the GED equivalent. They must have successfully completed a keyboarding course as well as earned a cumulative GPA of 2.0 on a 4.0 scale in science and English.

Candidates must submit an official transcript of all high school credits and any credits received above this level. They must also complete an application to the program and officially apply through the IUPUI Office of Admissions. Applications for the Indianapolis program may be obtained by contacting the dental school's director of dental assisting (see address on the last page of this bulletin) or by downloading the application from the program's Web site (www.iusd.iupui.edu/Depts/PA/Dent_Assist/default.htm). All completed application materials must be received by June 30.

Addresses for IU's other dental assisting programs are listed on the last page of this bulletin.

Dental Assisting Core Curriculum

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

Electives

A190	Expanded Restorative Dentistry (3 cr.)
A300	Special Topics in Dental Education (1 cr.)

Courses for the Dental Assisting Certificate Program

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

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

A112 Dental Therapeutics and Medical Emergencies (2 cr.) This course will present the pharmacology of medications that are commonly used by the physician and dentist and the diseases and indications for which these drugs are prescribed. Also, the class will review the systemic diseases and adverse reactions to dental treatment that can result in a medical emergency in the dental office and the armamentarium, medications, and procedures for treating these emergencies.

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

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

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

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

A151 Radiology Clinic I (2 cr.) The principles of radiation production, theories and techniques of radiographic imaging, film processing and mounting, radiation safety, and radiographic interpretation are studied in this didactic and preclinical course.

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

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

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

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

A182 Practice Management, Ethics, and Jurisprudence (2 cr.) A course designed to emphasize the role of the dental assistant in the management of a dental office through reception procedures, appointment control, record keeping, purchasing, third-party reimbursement, financial systems, and inventory control. Also, the legal and ethical aspects of dentistry are discussed.

A190 Expanded Restorative Dentistry (3 cr.) Lecture, laboratory, and clinical

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

A300 Special Topics in Dental Education (1 cr.) P: Chairperson's permission and admission to dental assisting, dental hygiene, or dental laboratory technology program. An advanced course for dental education majors. Supervised reading or projects on approved topics in dentistry. Hours, subject matter, and evaluation to be determined by faculty.

Graduate Work in Dentistry

Dean and Professor Goldblatt

Executive Associate Dean, Associate Dean for Academic Affairs and Graduate Education, and Professor C. Miller

Associate Deans and Professors

Garetto, D. Zero

Distinguished Professor Emeritus

Stooley

Professors Emeriti Arens, Avery, Bixler,

A. Christen, H. Henderson, Kafrawy, Lund, McDonald, Oshida, Shanks, Swartz, Tomich

Professors Andres, Baldwin, D. Brown, Carlson, Cochran, Dean, Gregory, Hancock, Hartsfield Jr., Hock, Hohlt, M. Kowolik, Matis, B. K. Moore, Newell, Olson, Parks, Roberts, Sanders, Van Dis, R. Ward, Zunt

Clinical Professors Newton, Mallatt

Volunteer Professor Gillette

Associate Professors Babler, Bidwell, C. Brown, Fontana, González-Cabezas, Hathaway, Hovijitra, John, Katona, Platt, Schaaf, Summerlin, Weddell, Windsor, K. M. Yoder

Clinical Associate Professors

M. T. Barco, R. Jones, Legan, C. Smith, Spolnik, Steffel

Assistant Professors Chin, Eggertsson, Ferreira Zandoná, Martinez-Mier, Srinivasan

Clinical Assistant Professors

S. Blanchard, Deardorf, Higgins, Kim

Volunteer Clinical Assistant Professor

C. T. Barco

Advisory Faculty Professor Emeritus

Swenson

Senior Scientist Emerita Dunipace

Lecturer Switalski

Former Professor LeBlanc

All of the School of Dentistry's graduate degree and certificate programs are fully accredited. Programs begin during the first week of July, except for the Ph.D. program, which begins 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 the Ph.D. degree in dental science. (See the following section titled "Major Fields of Graduate 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.

Major Fields of Graduate 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. Write to the Student Records and Admissions Office (for the M.S., M.S.D., and Ph.D. programs) and to the Department of Oral Surgery and Hospital Dentistry for the general practice residency and the oral and maxillofacial surgery residency (see addresses on page 40 of this bulletin).

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 materials track, see page 21 of this bulletin.

Dental Science

Ph.D. degree program offering tracks in preventive dentistry, oral biology, and dental materials. For details about the Ph.D. degree, see pages 18-21 of this bulletin.

Endodontics

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

General Practice Residency (GPR)

One-year hospital-based postgraduate residency leading to a certificate. Residents provide services at two hospital-based clinics as well as a

community health center. Rotations in oral and maxillofacial surgery, general anesthesia, family practice medicine, the Indiana University Cancer Center, and the Orofacial Pain Clinic. For application forms, admission requirements, and other information about the GPR program, write to the School of Dentistry's Department of Oral Surgery and Hospital Dentistry (see address on page 40 of this bulletin).

Operative Dentistry

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

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, write to the School of Dentistry's Department of Oral Surgery and Hospital Dentistry (see address on page 40 of this bulletin).

Orthodontics

M.S.D. degree program. Minor concentration: speech pathology, dental materials, oral pathology, dental education, life sciences, or a basic medical science.

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.

Periodontics

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

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 page 20 of this bulletin.

Prosthodontics

M.S.D. degree program. The following four clinical tracks are offered in the graduate prosthodontic curriculum: (1) emphasis on fixed prosthodontics; (2) emphasis on removable prosthodontics; (3) emphasis on maxillofacial prosthetics; and (4) equal emphasis on all areas of prosthodontics. The maxillofacial prosthetics track is hospital-based. The didactic requirements for each track are essentially the same. Differences in tracks involve clinical requirements and elective course work. Minor concentration: dental materials.

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

Further details about the Master's degrees are published in the *IUSD Graduate Student Handbook*.

Admission Requirements

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 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 an application form or more information for one of the M.S. or M.S.D. programs, write to the School of Dentistry's Student Records and Admissions Office (see address on page 40 of this bulletin).

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 2006–2007 academic year, three IU graduate programs are participating in both PASS and Match: orthodontics, pediatric dentistry, and oral and maxillofacial surgery. The prosthodontic graduate program is participating in PASS. Candidates should contact the dental school's Student Records and Admissions Office or the appropriate program director to obtain more information about application deadlines, national application services, and other details related to the application process.

English Proficiency

Students for whom English is not the first language must take the English as a

Second Language (ESL) Placement Test at the beginning of their dental school program. This test is offered on the IUPUI campus by the ESL Program in the Department of English. If the ESL Placement Test results 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 a certificate or degree can be awarded from the School of Dentistry. International students who will be teaching while enrolled in the School of Dentistry must take the SPEAK test, a pronunciation test that is also offered by the ESL 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 ESL Program at (317) 274-2188 or visit the ESL Program's Web site (english.iupui.edu/englishtextsite/esl/home.html).

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 major and minor departments. 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. 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. Each student must have an original research project approved by the School of Dentistry Research Committee, and then must satisfactorily complete the project and submit an approved thesis or journal manuscript.

Core Courses for All Students 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.

¹Postdoctoral Application Support Service (PASS), offered by the American Dental Education Association, 1625 Massachusetts Avenue N.W., Washington, D.C. 20036-2212; telephone (202) 667-1887 or 1-800-353-2237; Web: www.adea.org

²Postdoctoral Dental Matching Program (Match), offered by the National Matching Services, Suite 301, Box 29, 595 Bay Street, Toronto, Ontario M5G 2C2, Canada; telephone (416) 977-3431; Web: www.natmatch.com/dentres

These courses are G907 Clinical Oral Pathology Conference I, G909 Clinical Oral Pathology Conference II, G910 Seminar (Biostatistics), G948 Advanced Radiology, and 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 International students must satisfactorily complete all English courses required as a result of performance on the English as a Second Language Placement Test before a certificate or degree can be awarded.

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 copies are delivered to the IUSD Student Records and Admissions Office (one unbound copy) and the student's major and minor departments (one bound copy for each department). 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.

Tuition/Fees

Graduate students enrolled in two-year programs are charged a flat rate for tuition. Tuition is estimated as follows:

2005–2006

In-state residents—\$18,207.00 per year*

Nonresidents—\$42,770.90 per year*

For programs lasting more than two years, students in years three and above are charged at a credit hour rate. Credit hour rates for the 2005–2006 academic year are as follows:

In-state residents—\$214.95 per credit hour*

Nonresidents—\$620.40 per credit hour*

Students who are enrolled in hospital-based programs in oral and maxillofacial surgery and in pediatric dentistry are charged in-state rates regardless of their state residence. Students in the maxillofacial prosthetics residency pay in-state rates, regardless of their state residence, in the third year of the program.

An advance payment of \$500.00 (\$1,000.00 for orthodontics) in U.S. dollars is required after a student has been accepted. This fee is nonrefundable, but it is applicable toward tuition fees.

*Tuition and fees are subject to change upon approval by the Trustees of Indiana University.

Instrument Charges

Currently, graduate students in the clinical courses are required to purchase instruments and/or pay a rental fee. Listed below are the approximate charges for dental instruments and expendable materials:

2005–2006

Endodontics

Rental fee, \$2,600.00 per calendar year

Operative Dentistry

Instruments, \$2,570.42

Rental fee, \$2,600.00 per calendar year

Orthodontics

Instruments and Computer, \$4,999.16

Rental fee, \$2,600.00 per calendar year

Pediatric Dentistry

Instruments, \$1,414.99

Periodontics

Instruments, \$815.52

Rental fee, \$2,600.00 per calendar year

Prosthodontics

Instruments, Camera, and Computer, \$12,995.84

Rental fee, \$2,600.00 per calendar year

Postgraduate Study in Dentistry

A student who wishes to take graduate courses in dentistry but does not plan to work toward an advanced degree, or who is not eligible to enter a graduate dental program, may take certain courses as a postgraduate student. In such instances the student pays regular graduate fees for these courses. All grades earned will be recorded in the dental school's Student Records and Admissions Office and will appear on official university transcripts. In general, the didactic and clinical requirements for a certificate in one of the specialties of dentistry recognized by the American Dental Association are outlined in the published guidelines of the Council on Dental Education. However, the student should consult the director of the program for specific details regarding requirements. A certificate of attendance may be issued upon completion of requirements prescribed by the department.

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 (preventive dentistry, oral biology, or dental materials track) focuses on basic and clinical science areas as they relate to the human organism and on the

effect of dental materials on cariology. 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 Requirements

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, a TOEFL score of 550 or higher must be obtained by applicants from non-English-speaking countries.

English Proficiency

Students from countries where English is not the first language must take the English as a Second Language (ESL) Placement Test at the beginning of their Ph.D. program. This test is offered on the IUPUI campus by the ESL Program in the Department of English. If the ESL Placement Test results 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 a degree can be awarded by IU. International students who will be teaching while enrolled in the program must take the SPEAK test, a pronunciation test that is also offered by the ESL 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 ESL Program at (317) 274-2188 or visit the ESL Program's Web site (english.iupui.edu/englishsite/esl/home.html).

Tuition

Ph.D. students are charged a credit hour rate throughout the entire course of study. Credit hour rates for the 2005–2006 academic year are \$214.95 for residents and \$620.40 for nonresidents.

Program Requirements

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.

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. Students who are non-native speakers of English must demonstrate oral English competency (determined by the IUPUI English as a Second Language [ESL] Program) before they can participate in the PBL sessions. Students are encouraged to enroll in the IUPUI Preparing Future Faculty (PFF) program.

Research Credits 46 minimum (Oral Biology Track), 38 minimum (Preventive Dentistry Track), 39 minimum (Dental Materials Track).

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. It is expected that the student will choose a dissertation advisor (mentor) from among 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.

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 (graduate.indiana.edu/gradFaculty.php). 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 10- to 15-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 full member of the University Graduate School faculty (graduate.indiana.edu/gradFaculty.php). 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 either be an affiliate member of the University Graduate School faculty or meet the requirements of affiliate membership. At least half of the members of the research committee must be full members of the University Graduate School faculty; others may be either associate or affiliate members.

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.

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.

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, contact the appropriate department or school (at www.iupui.edu/academic/schoolsdepts.htm).

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.)
 GRAD G651 Introduction to Biostatistics I (3 cr.)
 GRAD G652 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)
 G910 Seminar: Preventive Dentistry or
 R959 Seminar: Oral Biology (one semester each year, 1 cr. each)
 R956 Current Topics in Oral Biology (2 semesters, 4 cr. each)

Research (remainder of 90 credits)
 R957 Introduction to Research in Oral Biology (3 cr.; taken once)
 R958 Research: Oral Biology (1-12 cr. each semester)

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, contact the appropriate department or school (at www.iupui.edu/academic/schoolsdepts.htm).

Required Courses (39 credits minimum)

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

Courses from the following list can be used to complete the total credit hours required for the major subject:
 C607 General Pathology (5 cr.)
 G900 Advanced Oral Histology and Embryology (2 cr.)
 G905 Physiology and Pathology of Bone (3 cr.)
 G911 Dental Materials Science and Engineering (3 cr.)
 G965 Histophysiology and Pathology of the Periodontium (4 cr.)
 G967 Advanced Periodontics (4 cr.)
 G973 Vitamins, Mineral Metabolism, and Hormones (2 cr.)
 R953 Biotechniques Methods and Instrumentation in Dentistry (3 cr.)

General Graduate (13 credits)

GRAD G504 Introduction to Research Ethics (2 cr.)
 GRAD G651 Introduction to Biostatistics I (3 cr.)
 GRAD G652 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)
 G910 Seminar: Preventive Dentistry or
 R959 Seminar: Oral Biology (one semester each year, 1 cr. each)
 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 courses in the first two years of their program:

G935 Dental Pediatrics (2 cr.)
 G969 Advanced Didactic Dental Diagnostic Sciences (2 cr.)
 G981 Principles of Restorative Dentistry (3 cr.)
 G988 Principles of Periodontics (2 cr.)

Research (remainder of 90 credits)

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

Dental Materials Track Core Curriculum

(The Dental Materials 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, contact the appropriate department or school (at www.iupui.edu/academic/schoolsdepts.htm).

Required Courses (39 credits minimum)

Biochemistry–Microbiology (3 credits)
 BIOC B500 Introduction to Biochemistry (3 cr.) or
 G959 Oral Microbiology (3 cr.)

General Graduate (16 credits)

GRAD G504 Introduction to Research Ethics (2 cr.)
 GRAD G651 Introduction to Biostatistics I (3 cr.)
 GRAD G652 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 Materials (20-22 credits)

G910 Seminar: Dental Materials (1 cr. each year enrolled)
 G911 Dental Materials Science and Engineering (3 cr.)
 G912 Properties and Test Methods: Dental Materials (3 cr.)
 G913 Clinical Applications of Dental Materials (3 cr.)
 R956 Current Topics in Oral Biology (2 semesters, 4 cr. each)

Research (remainder of 90 credits)

G921 Research: Dental Materials (1-12 cr. each semester)
 R957 Introduction to Research in Oral Biology (3 cr.; taken once)

Graduate Courses, 2005–2006¹

C607 General Pathology (1-5 cr.) Broad fields of disease; inflammation and infection; study of material in classroom and at autopsy; disease related to anatomic systems correlated with clinical subjects.

G900 Advanced Oral Histology and Embryology (2 cr.) Normal structures of oral cavity, their growth and development; microscopic study of tissues.

G903 Histologic Technique (1 cr.) Theoretical and practical preparation of tissue for microscopic study and application of special techniques in routine laboratory procedures and research.

G905 Physiology and Pathology of Bone (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.

G906 Tumor Clinic (.5 cr.; 1 cr. maximum) Clinical manifestation of neoplastic diseases; various types of therapy; tumors of head and neck.

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

G908 Advanced Radiographic Interpretation (2 cr.) Theory and practice of radiographic interpretation; correlations between gross anatomy, histology, pathology, and the radiograph.

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

G910 Seminar (1 cr.)

G911 Dental Materials Science and Engineering (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.

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.)

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.

G914 Advanced Complete Denture Theory (1-3 cr.) Advanced theories of complete denture prosthodontics, including comparison of denture materials and prosthetic teeth.

G915 Advanced Complete Denture Clinic (1-6 cr.) Clinical practice following advanced theories and practices suggested in G914.

G916 Special Problems in Complete Denture Design (1-4 cr.) Treatment of patients with difficult and unusual prosthetic denture problems.

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.

G918 Research: Dental Diagnostic Sciences (cr. arr.)

G920 Research: Oral Pathology (cr. arr.)

G921 Research: Dental Materials (cr. arr.)

G922 Research: Pediatric Dentistry (cr. arr.)

G923 Research: Prosthodontics (cr. arr.)

G925 Research: Operative Dentistry (cr. arr.)

G926 Research: Endodontics (cr. arr.)

G927 Research: Orthodontics (cr. arr.)

G928 Research: Periodontics (cr. arr.)

G930 Research: Preventive Dentistry (cr. arr.)

G931 Advanced Pediatric Dentistry (1-3 cr.) Two-semester course; diagnostic, preventive, and therapeutic phases of pediatric dentistry; evaluation of the literature.

G933 Research: Public Health (cr. arr.)

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.

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.

G936 Advanced Pediatric Dentistry Techniques (1-3 cr.) Interceptive orthodontic appliance design and fabrication.

G937 Advanced Clinical Instruction in Removable Partial Prosthodontics (.5-6 cr.) Clinical experience in extracoronally and intracoronally retained removable partial dentures.

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.

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.

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.

G942 Theories of Occlusion (1-2 cr.) Review of the literature, philosophies, and techniques of major contributors to the development of modern gnathological concepts.

G944 The Principles of Gnathology (1-2 cr.) Lectures, laboratory, and clinical exercises demonstrating the application of gnathological principles to restorative dentistry.

G945 Pediatric Dentistry Seminar (1 cr.) Current literature, research design, case analysis, and diagnosis.

G946 Advanced Clinical Radiography (1-4 cr.) P or C: G948. Clinical study of intraoral and extraoral radiographic techniques; various errors associated with oral radiographic techniques; problems and mechanisms associated with operation of a teaching-service clinic in oral radiography.

¹The availability of specific course offerings may vary from year to year.

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.

G948 Advanced Radiology (2 cr.)

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

G950 Advanced Clinical Operative Dentistry (1-6 cr.) Comprehensive restorative care correlated with modern preventive dentistry principles; current concepts of operative dentistry.

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

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.

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

G955 Research Communications (2 cr.) Study of the methodological and systematic treatments of scientific data required for responsible research practice and effective communication in oral health sciences. Exploration of case studies, written primary and secondary research publications, oral presentations, abstracts, slide and poster presentations, and grant proposals.

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

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

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.

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.

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.

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

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.

G965 Histophysiology and Pathology of the Periodontium (4 cr.) This course provides an overview of the periodontium, the dental pulp, periapex, and the oral mucosa in health and disease with emphasis on cell and molecular biology, histology, ultrastructure, biology of epithelium, connective tissue and extracellular matrix biology, inflammation, and immunology. Molecular pathology is emphasized and clinicopathologic correlations are provided.

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

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

G968 Advanced Clinical Dental Diagnostic Sciences (1-6 cr.) Usual and unusual oral pathologic problems of patients.

G969 Advanced Didactic Dental Diagnostic Sciences (2 cr.) Advanced diagnostic techniques and instruments applied with clinical signs and symptoms of oral and peroral diseases.

G971 Intermediary Metabolism (3 cr.) Human metabolic processes and their regulation and relationship to oral health and disease.

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

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

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.

G975 Basic Radiological Physics (2 cr.) Basic properties of various types of ionizing radiation, their interaction with matter, fundamentals of radiation detection and measurement, and basic instrument design.

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.

G977 Advanced Oral Pathology II (2 cr.) See course description for G976.

G978 Fundamentals of Radiation Biology (2 cr.) P: G975. Effects of ionizing radiation on biological systems; concepts of mechanisms of action and effects at molecular, cellular, organ, and total body levels.

G979 Radiology Literature Evaluation (1 cr.) Evaluation of scientific and radiological literature; principles of research and scientific writing.

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

G981 Principles of Restorative Dentistry (1-4 cr.) Interdepartmental course; operative dentistry, pediatric dentistry, fixed and removable partial prosthetics.

G982 Clinical Research Methods (1-3 cr.) Preliminary preparation for clinical field study including delineation of purpose, review of history, methods, personnel needed, equipment, sample size, data to be collected, study sites, etc.; review of projects with opportunity to prepare field study outline.

G983 Dental Problems of Special Population Groups (1-3 cr.) Health, dental, and societal problems of chronically ill, aged, handicapped, low-income, and institutional patients; outreach programs; methods of care.

G985 Fluoride Metabolism (2 cr.) History, clinical studies, pharmacology, toxicology, and biochemistry of fluoride compounds; current evaluations of newer methods of using fluoride compounds.

G986 Histopathological Laboratory Techniques (1 cr.) Preparation of soft tissue for microscopic study; special techniques with decalcified specimens; special staining procedures.

G988 Principles of Periodontics (2 cr.) An in-depth appraisal of all surgical procedures employed in periodontics, including rationale, indications and contraindications, techniques, and the healing sequence. Also covered are occlusion and restorative dentistry, their relationship to periodontics, and care of the patient with systemic disease.

G994 Applications of Genetic Principles to Problems in Dentistry (2 cr.) General principles of human genetics; importance of genetics to problems encountered in dentistry.

G995 Biostatistics as Applied to Public Health Problems (1-4 cr.) Collection, tabulation, and elementary analyses of data, including vital statistics, treatment of rates, and distribution of variates sampling variation.

G996 Epidemiology (1-3 cr.) Principles of epidemiology; dental caries, periodontal disease, malocclusion, and dental health problems of special population groups.

G998 Community Health Programming and Services (1-4 cr.) Public health practices; health and human behavior; health education in public health; group purchasing plans including pre- and post-payment, open and closed panels, and indemnity and coinsurance programs offered by profit and nonprofit organizations.

G999 Public Health Practice (1-6 cr.) Functions, scope, and historical background of public health; organization of official and voluntary public health agencies; maternal and child health, mental health, public health, nursing hospital services, dental health.

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

R904¹ Anesthesia Clinic and Seminar (cr. arr.) General anesthesia as applied in the operating room for all types of surgical problems as well as for dental procedures for ambulatory outpatients.

R905¹ 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.

R906¹ Advanced Oral Surgery Seminar (1-3 cr.) Broad background for advanced oral surgery; interpretation of physical findings, special laboratory procedures and evaluations, changing concepts in antibiotic and chemotherapeutic treatment, medicolegal aspects of surgery.

R907 Research: Oral Surgery (1-6 cr.)

R908 Speech Pathology—Speech Science (1-6 cr.) Speech pathology and audiology; etiologic and rehabilitative aspects of speech, language, and hearing disorders.

R909-R910-R911 Advanced Preventive Dentistry I (2-3 cr.), II (2-3 cr.), 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.

R914 Statistics (2 cr.) Problems of experimental design, including statistical methods for handling measures of central tendency, variation, reliability,

significance; determination of significance.

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.

R917 Joint Case Management Seminar (1 cr.) This course will present the didactic and clinical aspects of diagnosis and treatment planning for patients with complex dental problems. Class sessions will include discussion of pertinent literature in periodontics and restorative dentistry as well as the diagnosis and treatment planning of actual clinical cases.

R919 Physical Diagnosis (3-4 cr.) Lectures and demonstrations of techniques in history taking and physical diagnosis. Additional clinical experience will be provided for oral and maxillofacial surgery residents.

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.

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.

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

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.

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.

R926 Advanced Concepts in Biomedical Sciences (1 cr.) Lectures, readings, and discussions over a broad range of topics of importance to the practicing dentist, particularly the endodontist and periodontist. Course instructors will be drawn from various fields of clinical and basic sciences in dentistry and medicine.

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.

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.

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.

R931 Advanced Fixed Partial Prosthodontics Seminar and Laboratory I (.5-2 cr.) Advanced clinical and laboratory procedures with emphasis on metal-ceramic restorations.

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.

R933 Clinical Prosthodontics Seminar (.5-2 cr.) Advanced clinical procedures pertinent to the practice of prosthodontics.

R934 Surgical Orthodontics Seminar I (1 cr.) Theoretical basis for diagnosis and treatment planning of cases involving both orthodontics and surgery.

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.

R936 Advanced Fixed Partial Prosthodontics Seminar and Laboratory II (.5-2 cr.) Advanced clinical and laboratory procedures with emphasis on all-ceramic restorations.

R937 Special Pathology of Neoplasms I (2 cr.) Systematic study of the clinical and microscopic features of neoplasms of the head and neck with emphasis on those in the oral cavity.

R938 Special Pathology of Neoplasms II (2 cr.) Systematic study of the clinical and microscopic features of neoplasms of the head and neck with emphasis on those in the oral cavity.

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.

R941 Fundamentals of Implant Dentistry II (1-3 cr.) An overview of available implant systems with clinical

¹Enrollment limited to oral and maxillofacial surgery residents, except by special permission.

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.

R942 TMD and Facial Pain Seminar (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.

R943 Temporomandibular Dysfunction and Facial Pain Clinical Course II (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.

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.

R946 Prosthodontic Patient Presentation (.5-2 cr.) Case presentations and discussion of alternative methods of rehabilitation.

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.

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.

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.

R951 Light Parenteral Conscious 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.

R953 Biotechniques Methods and Instrumentation in Dentistry (3 cr.) Introductory course for dental graduate students (M.S. and Ph.D. candidates) getting ready for research. Basic concept of imaging is discussed. Other topics include bioelectricity, biomechanics, and biochemical engineering.

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.

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.

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.

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.

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.

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.

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.

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.

Education Courses

Students who have as their objective a career in education and research are encouraged to complete a minor from the following selection of graduate courses in the School of Education. Descriptions of these courses can be found in the School of Education Graduate Program Bulletin.

P508' Practicum in Measurement (2-3 cr.)

P510 Psychology in Teaching (2-3 cr.)

R566' Instructional Development Basics (2-3 cr.)

¹Prerequisites will be waived for dental students.

Faculty of the School of Dentistry

Full-Time Faculty (Indianapolis Campus)

Allerheiligen, Ted O., D.D.S. (*University of Texas Health Science Center at San Antonio*, 1980), *Clinical Assistant Professor of Operative Dentistry; Director of Comprehensive Care Clinic*

Ando, Masatoshi, Ph.D. (*Osaka Dental University [Japan]*, 1993), *Assistant Scientist, Preventive and Community Dentistry*

Andres, Carl J., D.D.S. (*Indiana University*, 1966), *Professor of Prosthodontics; Director of Graduate Prosthodontics*

Babler, William J., Ph.D. (*University of Michigan*, 1977), *Acting Chairperson of Oral Biology; Associate Professor of Oral Biology*

Barbosa, Fidel, D.M.D. (*University of Puerto Rico*, 1993), *Clinical Assistant Professor of Prosthodontics*

Barco, M. Thomas, D.D.S. (*Indiana University*, 1969), *Clinical Associate Professor of Prosthodontics; Director of Division of Prosthodontics, Restorative Dentistry*

Baumgartner, Michael P., D.D.S. (*Indiana University*, 1971), *Clinical Assistant Professor of Pediatric Dentistry*

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), *Assistant Professor of Periodontics; Director of Graduate Periodontics*

Brown, Cecil E., Jr., D.D.S. (*University of Tennessee*, 1959), *Acting Chairperson and Associate Professor of Endodontics; Director of Graduate Endodontics*

Brown, David T., D.D.S. (*The Ohio State University*, 1983), *Chairperson of Restorative Dentistry; Professor of Prosthodontics; Director of Undergraduate Restorative Dentistry*

Capps, Patricia A., M.S. (*Ball State University*, 1997), *Clinical Associate Professor*

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), *Assistant Professor of Preventive and Community Dentistry*

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

Cochran, Michael A., D.D.S. (*University of Michigan*, 1969), *Professor of Operative Dentistry; Director of Graduate Operative Dentistry*

Cox, Janice E., M.S.L.S. (*University of Kentucky*, 1970), *Librarian*

Dean, Jeffrey A., D.D.S. (*Indiana University*, 1983), *Chairperson of Oral Facial Development; Professor of Pediatric Dentistry and Orthodontics*

DeSchepper, Edward J., D.D.S. (*University of Missouri*, 1981), *Professor of Operative Dentistry; Director of Division of Operative Dentistry, Restorative Dentistry*

Dixon, Steven E., D.D.S. (*Indiana University*, 1973), *Clinical Assistant Professor of Operative Dentistry; Comprehensive Care Clinic Manager; Director of Comprehensive Care Clinic*

Eggertsson, Hafsteinn, Ph.D. (*Indiana University*, 2003), D.D.S. (*Indiana University*, 2000), D.D.S. (*University of Iceland [Iceland]*, 1989), *Assistant Professor of Preventive and Community Dentistry*

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- McNicholl, I. Corina, D.D.S. (*Indiana University, 1994*), *Clinical Assistant Professor of Hospital Dentistry*
- MacMillan, Barbara, M.Ed. (*Columbia University, 1977*), *Assistant Professor of Dental Education (South Bend)*
- Macri, James V., D.D.S. (*Indiana University, 1974*), *Volunteer Assistant Professor of Orthodontics*
- Maddox, Raymond M., D.D.S. (*Indiana University, 1975*), *Clinical Assistant Professor of Oral Biology*
- Mallatt, Mark E., D.D.S. (*Indiana University, 1975*), *Clinical Professor of Preventive and Community Dentistry and of Dental Hygiene*
- Malley, Kevin J., D.D.S. (*Georgetown University, 1984*), *Adjunct Assistant Professor of Preventive and Community Dentistry*
- Mann, Brett E., D.D.S. (*Indiana University, 1989*), *Volunteer Assistant Professor of Pediatric Dentistry*
- Mann, Nancy K., M.S. (*Loyola University, 2000*), *Clinical Assistant Professor of Dental Education (Fort Wayne)*
- Mansfield, George C., D.D.S. (*Indiana University, 1994*), *Clinical Assistant Professor of Operative Dentistry*
- Maxwell, Lisa L., B.S. (*Indiana University, 2000*), *Clinical Lecturer in Dental Hygiene*
- Menegotto, Louis D., D.D.S. (*University of Western Ontario [Canada], 1986*), *Clinical Assistant Professor of Prosthodontics*
- Mirowski, Ginat W., M.D. (*Harvard University, 1990*), D.M.D. (*Harvard University, 1986*), *Associate Professor of Oral Medicine (School of Dentistry) and Dermatology (School of Medicine)*
- Moening, John E., D.D.S. (*Indiana University, 1983*), *Volunteer Clinical Assistant Professor of Oral and Maxillofacial Surgery*
- Moore, Bryan A., Ph.D. (*University of Alabama–Birmingham, 2001*), *Adjunct Professor of Oral Biology*
- Mueller, Craig T., D.D.S. (*Indiana University, 1979*), *Clinical Assistant Professor of Pediatric Dentistry*
- Myers Kracher, Connie L., M.S. (*Indiana University, 1999*), *Interim Associate Dean of School of Health Sciences; Interim Chair and Associate Professor of Dental Education; Director of Dental Assisting (Fort Wayne)*
- Nasseri, Fariborz B., D.D.S. (*Indiana University, 1994*), *Clinical Assistant Professor of Operative Dentistry*
- Nelson, Charles L., D.D.S. (*Indiana University, 1976*), *Volunteer Associate Professor of Oral and Maxillofacial Surgery*
- Newton, Carl W., D.D.S. (*Indiana University, 1975*), *Clinical Professor of Endodontics*
- Ojeda, Angela R., D.D.S. (*Indiana University, 1998*), *Volunteer Clinical Assistant Professor of Preventive and Community Dentistry*
- Oldham, Drew F., D.D.S. (*Indiana University, 1963*), *Clinical Associate Professor of Prosthodontics*
- Oldham, James M., D.D.S. (*Indiana University, 1983*), *Clinical Assistant Professor of Dental Hygiene*
- Onyia, Jude E., Ph.D. (*State University of New York Health Science Center at Syracuse, 1993*), *Adjunct Assistant Professor of Oral Biology*
- Parsley, Maureen F., B.S. (*Ball State University, 1993*), *Clinical Lecturer in Dental Hygiene*
- Pate, Phillip R., D.D.S. (*Indiana University, 1968*), *Volunteer Clinical Assistant Professor of Pediatric Dentistry*
- Pavolotskaya, Aleksandra, M.S. (*Old Dominion University, 2003*), *Clinical Lecturer in Dental Hygiene*
- Pease, Lynn L., B.S. (*Indiana University, 1994*), *Visiting Clinical Lecturer in Dental Education (South Bend)*
- Perez, Albino M., Jr., M.S.Ed. (*Indiana University, 1984*), *Clinical Associate Professor of Dental Education (Fort Wayne)*
- Perolat, N. Catherine, D.D.S. (*Indiana University, 1996*), *Volunteer Clinical Assistant Professor of Preventive and Community Dentistry*
- Pfotenhauer, David H., D.D.S. (*Indiana University, 1989*), *Clinical Assistant Professor of Endodontics*

- Phillips, Gregory E., D.D.S. (*Indiana University, 1984*), *Clinical Assistant Professor of Periodontics*
- Pogue, Paul K., D.D.S. (*Indiana University, 1979*), *Volunteer Clinical Assistant Professor of Oral and Maxillofacial Surgery*
- Porapaiboon, Kimberly L., D.D.S. (*Indiana University, 2001*), *Clinical Assistant Professor of Pediatric Dentistry*
- Pritchett, Charles E., D.D.S. (*Indiana University, 1967*), *Clinical Assistant Professor of Orthodontics*
- Pruitt, John W., M.D. (*University of Illinois, 1992*), D.D.S. (*Ohio State University, 1989*), *Volunteer Clinical Assistant Professor of Oral and Maxillofacial Surgery*
- Querry, Sharon A., B.S. (*Indiana University, 1998*), *Clinical Lecturer in Dental Hygiene*
- Reed, Angel J., B.S. (*Indiana University, 1990*), *Clinical Lecturer in Dental Hygiene*
- Reef, Scott A., D.D.S. (*Indiana University, 1991*), *Clinical Assistant Professor of Periodontics*
- Rigsbee, O. H., III, D.D.S. (*Indiana University, 1984*), *Clinical Assistant Professor of Orthodontics*
- Rinehart, Elizabeth A., B.A. (*Indiana University, 2004*), *Clinical Lecturer in Dental Hygiene*
- Robinson, Juanita G., M.S. (*Indiana University, 1993*), *Clinical Assistant Professor and Director of Dental Education (Northwest)*
- Roszkowski, Ronald L., D.D.S. (*Indiana University, 1979*), *Volunteer Clinical Assistant Professor of Periodontics*
- Russell, Jennifer A., D.D.S. (*Indiana University, 1998*), *Clinical Assistant Professor of Orthodontics*
- Sá, Lorena T., D.D.S. (*Indiana University, 2005*), D.D.S. (*Pontificia Universidade Católica do Rio Grande do Sul [Brazil], 1999*), *Clinical Assistant Professor of Operative Dentistry*
- Sadove, A. Michael, M.D. (*Loyola University of Chicago, 1974*), *James Joseph Harbaugh Jr. Professor of Plastic Surgery (School of Medicine) and Oral and Maxillofacial Surgery (School of Dentistry)*
- Satterfield-Siegel, Jennifer L., D.D.S. (*Indiana University, 1992*), *Volunteer Assistant Professor of Pediatric Dentistry*
- Sawyer, David H., D.D.S. (*Indiana University, 1961*), *Clinical Assistant Professor of Operative Dentistry*
- Sayman, Raquel N., B.S. (*Indiana University, 2005*), *Clinical Lecturer in Dental Hygiene*
- Schafer, Judith M., M.S. (*Indiana University, 2002*), *Clinical Lecturer in Dental Education (South Bend)*
- Schafer, Stephanie L., B.S. (*Indiana University, 2000*), *Clinical Lecturer in Dental Hygiene*
- Schrader, Stuart M., Ph.D. (*State University of New York at Buffalo, 1998*), *Adjunct Assistant Professor of Behavioral Science*
- Schultz, William F., D.D.S. (*Indiana University, 1962*), *Volunteer Assistant Professor of Oral and Maxillofacial Surgery*
- Sellers, Cory B., D.D.S. (*Indiana University, 1999*), *Clinical Assistant Professor of Oral Surgery and Hospital Dentistry*
- Sexton, Robert E., D.D.S. (*Indiana University, 1972*), *Volunteer Assistant Professor of Oral and Maxillofacial Surgery*
- Smith, Barbara F., D.D.S. (*Indiana University, 1994*), *Clinical Assistant Professor of Operative Dentistry*
- Smith, Charles E., D.D.S. (*Indiana University, 1961*), *Clinical Associate Professor of Preventive and Community Dentistry*
- Smith, Wendy S., B.S. (*Indiana University, 1995*), *Clinical Lecturer in Dental Hygiene*
- Spolnik, Kenneth J., D.D.S. (*Indiana University, 1975*), *Clinical Associate Professor of Endodontics*
- Steffel, Charles L., D.D.S. (*Indiana University, 1978*), *Clinical Associate Professor of Endodontics*
- Stewart, Tonya R., D.D.S. (*Indiana University, 1994*), *Clinical Assistant Professor of Prosthodontics*
- Stokes, Robert E., D.D.S. (*Indiana University, 1972*), *Clinical Assistant Professor of Operative Dentistry*
- Stoner, Robert A., D.D.S. (*Indiana University, 1980*), *Volunteer Assistant Professor of Orthodontics*
- Stronczek, Michael J., D.D.S. (*Indiana University, 1988*), *Volunteer Assistant Professor of Oral and Maxillofacial Surgery*
- Stump, Norman L., D.D.S. (*Indiana University, 1979*), *Clinical Assistant Professor of Operative Dentistry and Dental Hygiene*
- Sturgeon, Sara S., D.D.S. (*Indiana University, 1976*), *Clinical Assistant Professor of Prosthodontics*
- Tate, Brian P., D.D.S. (*Indiana University, 1995*), *Clinical Assistant Professor of Endodontics*
- Tate, Scott E., D.D.S. (*Indiana University, 1999*), *Volunteer Clinical Assistant Professor of Oral and Maxillofacial Surgery*
- Towns, Stephen B., D.D.S. (*University of Illinois, 1973*), *Clinical Assistant Professor of Oral and Maxillofacial Surgery*
- Townsend, Sandra J., B.S. (*Indiana University, 2001*), *Clinical Lecturer in Dental Hygiene*
- Troyer, Stephen H., D.D.S. (*Indiana University, 1968*), *Volunteer Clinical Assistant Professor of Oral and Maxillofacial Surgery*
- Turner, Mark D., D.D.S. (*Indiana University, 1974*), *Volunteer Assistant Professor of Orthodontics*
- Ursu, Samuel C., J.D. (*Detroit College of Law, 1978*), D.D.S. (*University of Michigan, 1958*), *Adjunct Associate Professor of Orthodontics*
- Walker, LaQuia A., D.D.S. (*University of California, 2002*), *Clinical Assistant Professor of Pediatric Dentistry*
- Walker, Paul O., D.D.S. (*Northwestern University, 1966*), *Clinical Assistant Professor of Pediatric Dentistry*
- Ward, Cullen C., D.D.S. (*Howard University, 1966*), *Clinical Associate Professor of Periodontics*
- Ward, Richard E., Ph.D. (*University of Colorado, 1980*), *Professor of Anthropology (School of Liberal Arts) and Oral Facial Genetics (School of Dentistry)*
- Wells, John R., D.M.D. (*University of Louisville, 1983*), *Volunteer Clinical Assistant Professor of Pediatric Dentistry*
- Wilcox, David C., M.D. (*University of South Florida, 1983*), *Clinical Associate Professor of Medicine (School of Medicine)*
- Winn, Terri A., D.D.S. (*Indiana University, 1984*), *Volunteer Assistant Professor of Pediatric Dentistry*
- Wittrig, Matthew S., D.D.S. (*Indiana University, 1989*), *Clinical Assistant Professor of Operative Dentistry*
- Wohlford, Mark E., Ph.D. (*The Ohio State University, 1992*), D.D.S. (*University of Iowa, 1985*), *Volunteer Assistant Professor of Oral and Maxillofacial Surgery*
- Wolfe, James T., D.D.S. (*Indiana University, 1993*), *Clinical Assistant Professor of Periodontics*
- Wood, Kyle A., D.D.S. (*Indiana University, 1996*), *Adjunct Assistant Professor of Oral and Maxillofacial Surgery*
- Yoder, Benjamin J., D.D.S. (*Indiana University, 1996*), *Volunteer Clinical Assistant Professor of Preventive and Community Dentistry*
- Yoder, Keith E., D.D.S. (*Indiana University, 1963*), *Volunteer Clinical Assistant Professor of Preventive and Community Dentistry*
- Yokom, Nanci G., M.B.A. (*Indiana University, 1989*), *Associate Professor and Director of Dental Education (South Bend)*
- Zekonis, Ruta, D.D.S. (*Indiana University, 2004*), *Clinical Assistant Professor of Restorative Dentistry*
- Zero, Odette A., D.D.S. (*Universidad Francisco Marroquín [Guatemala], 1989*), *Clinical Assistant Professor of Oral Biology*

Emeritus Faculty

- Arens, Donald E., D.D.S. (*Indiana University, 1959*), *Professor Emeritus of Endodontics*
- Avery, David R., D.D.S. (*Indiana University, 1966*), *Ralph E. McDonald Professor Emeritus of Pediatric Dentistry; Professor Emeritus of Pediatric Dentistry*

- Bogan, Robert L., D.D.S. (*Indiana University, 1954*), Professor Emeritus of Prosthodontics
- Boone, Malcolm E., D.D.S. (*Indiana University, 1946*), Professor Emeritus of Prosthodontics
- Campbell, Helen W., B.S. (*Butler University, 1967*), Librarian Emerita, School of Dentistry Library
- Chalian, Varoujan A., D.D.S. (*Indiana University, 1964*), D.D.S. (*Ecole de Chirurgie Dentaire et de Stomatologie de Paris [France], 1955*), Professor Emeritus of Prosthodontics (School of Dentistry) and Otolaryngology, Head and Neck Surgery (School of Medicine)
- Chisler, Juanita H., B.S. (*Indiana University, 1978*), Assistant Professor Emerita of Dental Assisting
- Christen, Arden G., D.D.S. (*University of Minnesota, 1956*), Professor Emeritus of Oral Biology; Adjunct Professor of Preventive and Community Dentistry (School of Dentistry); Adjunct Professor of Public Health (School of Medicine)
- DeCastro, Rolando A., M.S.D. (*Indiana University, 1972*), D.M.D. (*Manila Central University [The Philippines], 1953*), Professor Emeritus of Oral Anatomy
- Detamore, Robert J., D.D.S. (*Northwestern University, 1948*), Professor Emeritus of Periodontics
- Dirlam, James H., D.D.S. (*Indiana University, 1950*), Professor Emeritus of Oral and Maxillofacial Surgery
- Dunipace, Ann J., Ph.D. (*Harvard University, 1964*), Senior Scientist Emerita, Oral Health Research Institute
- Garner, LaForrest D., D.D.S. (*Indiana University, 1957*), Professor Emeritus of Orthodontics
- Gilmore, H. William, D.D.S. (*Indiana University, 1958*), Dean Emeritus; Professor Emeritus of Operative Dentistry
- Gish, Charles W., D.D.S. (*Indiana University, 1949*), Professor Emeritus of Pediatric Dentistry
- Harris, Ronald K., D.D.S. (*Marquette University, 1959*), Professor Emeritus of Operative Dentistry
- Henderson, Hala Z., D.D.S. (*Indiana University, 1970*), Professor Emerita of Pediatric Dentistry
- Hennon, David K., D.D.S. (*Indiana University, 1960*), Professor Emeritus of Pediatric Dentistry and Orthodontics
- Hutton, Charles E., D.D.S. (*Indiana University, 1952*), Professor Emeritus of Oral and Maxillofacial Surgery
- Huxoll, Gloria H., B.S. (*Indiana University, 1974*), Assistant Professor Emerita of Dental Auxiliary Education (Fort Wayne)
- Kafrawy, Abdel H., M.S.D. (*Indiana University, 1962*), B.D.S. (*Cairo University [Egypt], 1958*), Professor Emeritus of Dental Diagnostic Sciences
- Kaneshiro, Kenneth K., D.D.S. (*Marquette University, 1956*), Associate Professor Emeritus of Periodontics
- Kasle, Myron J., D.D.S. (*Indiana University, 1962*), Howard Riley Raper Professor Emeritus of Radiology
- Koerber, Leonard G., Ed.D. (*Indiana University, 1970*), Professor Emeritus of Oral Biology
- Lund, Melvin R., D.M.D. (*University of Oregon, 1946*), Professor Emeritus of Operative Dentistry
- McCormick, Francis E., D.D.S. (*Indiana University, 1953*), Professor Emeritus of Pediatric Dentistry
- McDonald, James L., Jr., Ph.D. (*Indiana University, 1968*), Professor Emeritus of Preventive and Community Dentistry
- McDonald, Ralph E., D.D.S. (*Indiana University, 1944*), Dean Emeritus; Professor Emeritus of Pediatric Dentistry
- Markarian, Shant, D.D.S. (*University of Pennsylvania, 1959*), Associate Professor Emeritus of Dental Education (South Bend)
- Niemann, Sybil S., D.D.S. (*Indiana University, 1966*), Clinical Assistant Professor Emerita of Allied Dental Programs
- Oldsen, Evelyn R., M.S. (*University of Iowa, 1969*), Associate Professor Emerita of Dental Hygiene
- Oshida, Yoshiki, Ph.D. (*Waseda University [Japan], 1971*), Professor Emeritus of Dental Materials
- Park, Kichuel K., D.D.P.H. (*University of Toronto [Canada], 1969*), Ph.D. (*Seoul National University [South Korea], 1967*), D.D.S. (*Seoul National University, 1962*), Professor Emeritus of Preventive and Community Dentistry
- Potter, Rosario H., M.S. (*Indiana University, 1967*), D.M.D. (*University of the East [The Philippines], 1952*), Professor Emerita of Oral Facial Genetics
- Richmond, Norris L., D.D.S. (*Indiana University, 1963*), Professor Emeritus of Operative Dentistry
- Risch, John R., D.D.S. (*Indiana University, 1951*), Associate Professor Emeritus of Prosthodontics
- Roche, James R., D.D.S. (*Indiana University, 1947*), Professor Emeritus of Pediatric Dentistry
- Schmedtje, John F., Ph.D. (*Rutgers, The State University of New Jersey, 1951*), Associate Professor Emeritus of Anatomy (School of Medicine and School of Dentistry)
- Shanks, James C., Jr., Ph.D. (*Northwestern University, 1957*), Professor Emeritus of Speech Pathology (School of Medicine) and Orthodontics (School of Dentistry)
- Starkey, Paul E., D.D.S. (*Indiana University, 1943*), Professor Emeritus of Pediatric Dentistry
- Stookey, George K., Ph.D. (*Indiana University, 1971*), Distinguished Professor Emeritus of Preventive and Community Dentistry
- Swartz, Marjorie L., M.S. (*Indiana University, 1959*), Professor Emerita of Dental Materials
- Swenson, Henry M., D.D.S. (*University of Illinois, 1942*), Professor Emeritus of Periodontics
- Tharp, Donald R., D.D.S. (*Indiana University, 1964*), Professor Emeritus of Operative Dentistry
- Tomich, Charles E., D.D.S. (*Loyola University, New Orleans, 1961*), Professor Emeritus of Oral Pathology
- Totten, Carla J., B.S. (*Indiana University, 1967*), Assistant Professor Emerita of Dental Hygiene
- Wagner, A. George, D.D.S. (*University of Michigan, 1954*), Professor Emeritus of Prosthodontics
- Zonakis, Peter T., D.D.S. (*Indiana University, 1961*), Associate Professor Emeritus of Dental Auxiliary Education (Fort Wayne)

Indiana University

When you become a student at Indiana University, you join an academic community internationally known for the excellence and diversity of its programs. With 1,129 degree programs, the university attracts students from all 50 states and around the world. The full-time faculty numbers more than 5,000 and includes members of many academic societies such as the American Academy of Arts and Sciences, the American Philosophical Society, and the National Academy of Sciences.

Indiana University was founded at Bloomington in 1820 and is one of the oldest and largest institutions of higher education in the Midwest. It serves nearly 100,000 students on eight campuses. The residential campus at Bloomington and the urban center at Indianapolis form the core of the university. Campuses in Gary, Fort Wayne, Kokomo, New Albany, Richmond, and South Bend join Bloomington and Indianapolis in bringing an education of high quality within reach of all of Indiana's citizens.

General Policies

Equal Opportunity/Affirmative Action Policy of Indiana University

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 Affirmative Action office on each campus monitors the university's policies and assists individuals who have questions or problems related to discrimination.

Special Assistance

For people who have disabilities and need special assistance, special arrangements can be made to accommodate most needs. In Bloomington, contact Disability Services for Students at (812) 855-7578; at IUPUI, contact Adaptive Educational Services at (317) 274-3241.

Confidentiality of Student Records

In accordance with federal statutes and regulations, student records are confidential and available for disclosure to persons other than the student only under stated conditions.

Student Rights and Responsibilities

A statement of students' rights and responsibilities is published in a handbook, *Code of Student Rights, Responsibilities, and Conduct*, which contains a description of due process hearings in the event of disciplinary action.

Degree Requirements Students are responsible for understanding all requirements for graduation and for completing them by the time they expect to graduate. Information about a specific school or division can be found in the front section of the bulletin for that school.

Requests for deviation from department, program, or school requirements may be granted only by written approval from the respective chairperson, director, or dean (or a designated administrative representative). Disposition at each level is final.

Undergraduate Admissions Policy

Indiana University has adopted the following admissions policy to ensure that undergraduate students are properly prepared for college work. These standards seek to ensure either adequate academic preparation in high school or evidence of unusual motivation on the part of each student admitted to the university. Applicants for admission to Indiana University are expected to meet the following criteria.

Freshman Students¹

1. Graduation from an accredited Indiana high school or comparable out-of-state institution, successfully completing a minimum of 28 semesters of college-preparatory courses including the following:
 - (a) Eight semesters of English. (One semester each of speech and journalism may be included.)
 - (b) Four semesters of social science (economics, government, history,

- psychology, or sociology).
 - (c) Four semesters of algebra (two semesters of which must be advanced algebra) and two semesters of geometry.
 - (d) Two semesters of laboratory science (biology, chemistry, or physics).
 - (e) Eight semesters in some combination of foreign language; additional mathematics, laboratory science, or social science; computer science; and other courses of a college-preparatory nature.
 - (f) Four semesters of foreign language are strongly recommended.
 - (g) Courses to develop writing composition skills are strongly recommended.
2. A rank in the upper half of the high school graduating class for Indiana residents or a rank in the upper third of the high school graduating class for out-of-state residents.
 3. A score above the median established by Indiana students on a nationally standardized admissions test. Students who have been out of high school for three or more years do not have to submit test scores unless required for admission to specific programs.
 4. Each campus may accept students who are deficient in (1), (2), or (3) of the above specifications upon receipt of such evidence as the combination of strength of college-preparatory program, rank in class, grades and grade trends in college-preparatory courses, and standardized test scores. For persons who do not meet the above criteria and who have been out of high school three or more years, admission can be based on other factors such as a General Educational Development (GED) diploma, maturity, work experience, military service, and other factors as determined by the campus.
 5. Each campus, at its discretion, may admit a student on a probationary basis and/or through faculty sponsorship.
 6. Indiana residents are expected to complete Core 40, and the Academic Honors Diploma is encouraged.

Transfer Students²

1. Submission of official transcripts from all previous institutions attended.
2. The transcripts must reflect a cumulative grade point average of at least a 2.0 (on a 4.0 scale) for Indiana residents and at least a 2.5 (on a 4.0 scale) for out-of-state residents.

¹Some academic programs require specific qualifications in addition to those enumerated in this policy.

²Rules 2(b) and 2(c) apply only to unemancipated persons under 21 years of age.

3. If the student has fewer than 26 transferable credit hours, the high school record should reflect compliance with freshman admission requirements as specified above.
4. The credentials of students seeking transfer to Indiana University will be evaluated on an individual basis.

When students do not qualify upon first application, they will be counseled about ways of removing deficiencies so that they may qualify for admission at a later date. If any provision of this policy is held invalid, the invalidity does not affect other provisions of this policy which can be given effect without the invalid provision, and to this end the provisions of this policy are severable.

Transfer to Other Indiana University Campuses

The policy stated below concerning transfer credit pertains to undergraduate students only.

Each campus has established one office to serve as the central information source for intercampus transfers. Some campuses have priority dates for students to declare an interest in making an intercampus transfer. Even if a campus has no priority date, it is important to start investigating the transfer requirements as early as possible to assure the best possibility of enrolling in your desired courses.

Consult the intercampus transfer Web site at www.iupui.edu/~moveiu for detailed information and a listing of campus contacts and intercampus transfer policies. You can also initiate an intercampus transfer by completing the form on the Web site.

Students who want to transfer from one Indiana University campus to another campus should follow these procedures:

1. Meet with your home campus advisor to discuss academic preparation, grades, and other eligibility issues. You can get a general idea of how your classes may apply to another degree by using the Degree Progress Report, a computerized degree-audit system available on the Web through the OneStart portal at onestart.iu.edu. While the advising capacity of The Degree Progress Report is qualified by each individual's circumstances, it can help you learn how courses will apply toward different degrees.
2. Consult the intercampus transfer office at the proposed new campus if

academic and/or eligibility questions remain. Remember that application for intercampus transfer does not guarantee admission to the campus or a specific school on the campus. Campuses may provide additional information and contact points for questions.

3. If applicable, talk to the financial aid offices at the present and proposed campuses. Your aid eligibility does not transfer automatically from one campus to another.
4. Visit the new campus to explore possible academic and social adjustment issues; some campuses may establish special open house events for those students who have expressed interest. Some campuses may also require that you attend a special orientation program or take placement examinations.
5. If you decide to proceed with the transfer, complete the intercampus transfer form. The receiving campus will respond to you and your home campus. If you decide later not to transfer, you should notify both campuses.

Rules Determining Resident and Nonresident Student Status for Indiana University Fee Purposes

These Rules establish the policy under which students shall be classified as residents or nonresidents upon all campuses of Indiana University for University fee purposes. Nonresident students shall pay a nonresident fee in addition to fees paid by a resident student.

These Rules shall take effect February 1, 1974; provided, that no person properly classified as a resident student before February 1, 1974, shall be adversely affected by this Rule, if he or she attended the university before that date and while he or she remains continuously enrolled in the university.

1. "Residence" as the term, or any of its variations (e.g., "resided"), as used in the context of these Rules, means the place where an individual has his or her permanent home, at which he or she remains when not called elsewhere for labor, studies, or other special or temporary purposes, and to which he or she returns in seasons of repose. It is the place a person has

voluntarily fixed as a permanent habitation for himself or herself with an intent to remain in such place for an indefinite period. A person at any one time has but one residence, and a residence cannot be lost until another is gained.

- (a) A person entering the state from another state or country does not at that time acquire residence for the purpose of these Rules, but except as provided in Rule 2(c)¹, such person must be a resident for 12 months in order to qualify as a resident student for fee purposes.
 - (b) Physical presence in Indiana for the predominant purpose of attending a college, university, or other institution of higher education, shall not be counted in determining the 12-month period of residence; nor shall absence from Indiana for such purpose deprive a person of resident student status.
2. A person shall be classified as a "resident student" if he or she has continuously resided in Indiana for at least 12 consecutive months immediately preceding the first scheduled day of classes of the semester or other session in which the individual registers in the University, subject to the exception in (c)¹ below.
 - (a) The residence of an unemancipated person under 21 years of age follows that of the parents or of a legal guardian who has actual custody of such person or administers the property of such person. In the case of divorce or separation, if either parent meets the residence requirements, such person will be considered a resident.²
 - (b) If such person comes from another state or country for the predominant purpose of attending the University, he or she shall not be admitted to resident student status upon the basis of the residence of a guardian in fact, except upon appeal to the Standing Committee on Residence in each case.¹
 - (c) Such person may be classified as a resident student without meeting the 12-month residence requirement within Indiana if his or her presence in Indiana results from the establishment by his or her parents of their residence within the state and if he or she proves that the move was predominantly for reasons other than to enable such person to

¹Rules 2(b) and 2(c) apply only to unemancipated persons under 21 years of age.

²Invocation of the provision in Rule 2(a) that applies to cases of divorce or separation requires appropriate legal documentation.

- become entitled to the status of “resident student.”¹
- (d) When it shall appear that the parents of a person properly classified as a “resident student” under subparagraph (c) above have removed their residence from Indiana, such person shall then be reclassified to the status of nonresident; provided, that no such reclassification shall be effective until the beginning of a semester next following such removal.
 - (e) A person once properly classified as a resident student shall be deemed to remain a resident student so long as remaining continuously enrolled in the university until such person’s degree shall have been earned, subject to the provisions of subparagraph (d) above.
3. The foreign citizenship of a person shall not be a factor in determining resident student status if such person has legal capacity to remain permanently in the United States.
 4. A person classified as a nonresident student may show that he or she is exempt from paying the nonresident fee by clear and convincing evidence that he or she has been a resident (see Rule 1 above) of Indiana for the 12 months prior to the first scheduled day of classes of the semester in which his or her fee status is to be changed. Such a student will be allowed to present his or her evidence only after the expiration of 12 months from the residence qualifying date, i.e., the date upon which the student commenced the 12-month period for residence. The following factors will be considered relevant in evaluating a requested change in a student’s nonresident status and in evaluating whether his or her physical presence in Indiana is for the predominant purpose of attending a college, university, or other institution of higher education. The existence of one or more of these factors will not require a finding of resident student status, nor shall the non-existence of one or more require a finding of nonresident student status. All factors will be considered in combination, and ordinarily resident student status will not result from the doing of acts which are required or routinely done by sojourners in the state or which are merely auxiliary to the fulfillment of educational purposes.
 - (a) The residence of a student’s parents or guardians.
 - (b) The situs of the source of the student’s income.
 - (c) To whom a student pays his or her taxes, including property taxes.
 - (d) The state in which a student’s automobile is registered.
 - (e) The state issuing the student’s driver’s license.
 - (f) Where the student is registered to vote.
 - (g) The marriage of the student to a resident of Indiana.
 - (h) Ownership of property in Indiana and outside of Indiana.
 - (i) The residence claimed by the student on loan applications, federal income tax returns, and other documents.
 - (j) The place of the student’s summer employment, attendance at summer school, or vacation.
 - (k) The student’s future plans including committed place of future employment or future studies.
 - (l) Admission to a licensed profession in Indiana.
 - (m) Membership in civic, community, and other organizations in Indiana or elsewhere.
 - (n) All present and intended future connections or contacts outside of Indiana.
 - (o) The facts and documents pertaining to the person’s past and existing status as a student.
 - (p) Parents’ tax returns and other information, particularly when emancipation is claimed.
 5. The fact that a person pays taxes and votes in the state does not in itself establish residence, but will be considered as hereinbefore set forth.
 6. The registrar or the person fulfilling those duties on each campus shall classify each student as resident or nonresident and may require proof of all relevant facts. The burden of proof is upon the student making a claim to a resident student status.
 7. A Standing Committee on Residence shall be appointed by the president of the university and shall include two students from among such as may be nominated by the student body presidents of one or more of the campuses of the university. If fewer than four are nominated, the president may appoint from among students not nominated.
 8. A student who is not satisfied by the determination of the registrar has the right to lodge a written appeal with the Standing Committee on Residence within 30 days of receipt of written notice of the registrar’s determination, which committee shall review the appeal in a fair manner and shall afford to the student a personal hearing upon written request. A student may be represented by counsel at such hearing. The committee shall report its determination to the student in writing. If no appeal is taken within the time provided herein, the decision of the registrar shall be final and binding.
 9. The Standing Committee on Residence is authorized to classify a student as a resident student, though not meeting the specific requirements herein set forth, if such student’s situation presents unusual circumstances and the individual classification is within the general scope of these Rules. The decision of the committee shall be final and shall be deemed equivalent to a decision of the Trustees of Indiana University.
 10. A student or prospective student who shall knowingly provide false information or shall refuse to provide or shall conceal information for the purpose of improperly achieving resident student status shall be subject to the full range of penalties, including expulsion, provided for by the university, as well as to such other punishment which may be provided for by law.
 11. A student who does not pay additional monies which may be due because of his or her classification as a nonresident student within 30 days after demand, shall thereupon be indefinitely suspended.
 12. A student or prospective student who fails to request resident student status within a particular semester or session and to pursue a timely appeal (see rule 8) to the Standing Committee on Residence shall be deemed to have waived any alleged overpayment of fees for that semester or session.
 13. If any provision of these rules or the application thereof to any person or circumstance is held invalid, the invalidity does not affect other provisions or applications of these rules which can be given effect without the invalid provision or application, and to this end the provisions of these rules are severable.

Fees

The instructional fees listed here were approved at the May 2005 meeting of the Trustees of Indiana University. Fees are subject to change by action of the trustees. For up-to-date information about fees in effect at registration time, see the campus *Enrollment and Student Academic Information Bulletin* (Bloomington campus) or the *Registration Guide and Academic Information* (Indianapolis campus).

Certain courses and programs requiring studios, laboratories, microscopes, computers, or other special equipment may involve special fees in addition to the instructional fee. Applied music, distance education, student teaching, and some physical education courses also carry additional fees. See the campus *Enrollment and Student Academic Information Bulletin* or *Registration Guide and Academic Information* for a list of such courses and programs.

Fees for Indiana University campuses other than Bloomington and Indianapolis are published in the bulletin of the specific campus.

INSTRUCTIONAL FEES	Indiana Resident	Nonresident
	Bloomington Campus	
Undergraduate ¹	\$2,597.25 flat fee/semester for 12 to 17 credit hours (matriculated before summer 2003)	\$8,786.70 flat fee/semester for 12 to 17 credit hours (matriculated before summer 2003)
	\$3,145.35 flat fee/semester for 12 to 17 credit hours (matriculated summer 2003 or later)	\$9,343.70 flat fee/semester for 12 to 17 credit hours (matriculated summer 2003 or later)
	\$162.15/credit hour under 12 or over 17 (matriculated before summer 2003)	\$549.20/credit hour under 12 or over 17 (matriculated before summer 2003)
	\$196.40/credit hour under 12 or over 17 (matriculated summer 2003 or later)	\$584.05/credit hour under 2 or over 17 (matriculated summer 2003 or later)
Graduate and Professional ¹		
Business—M.B.A. Program ²	\$6,701.15/semester	\$13,660.00/semester
Business ²	\$446.80/credit hour	\$910.75/credit hour
Law ²	\$369.35/credit hour;	\$965.45/credit hour;
	\$6,764.15/semester for 9 or more credit hours	\$13,788.40/semester for 9 or more credit hours
Library and Information Science	\$255.85/credit hour	\$745.30/credit hour
Optometry ²	\$306.10/credit hour;	\$676.45/credit hour;
	\$6,313.60/semester for 8 or more credit hours	\$13,952.00/semester for 8 or more credit hours
Public and Environmental Affairs	\$276.75/credit hour	\$743.40/credit hour
Other	\$226.55/credit hour	\$659.85/credit hour
Independent Study (Correspondence)	\$132.15/credit hour	\$132.15/credit hour
Dissertation Research (G901) ³	\$150.00/semester	\$150.00/semester
Advanced Research Law (B798)	\$150.00/semester	\$150.00/semester
Auditing (no credit)	\$25.00/credit hour	\$25.00/credit hour
Distance Education Special Courses ⁴	Same as rate for on-campus instruction in respective category	

¹Includes credit courses in the School of Continuing Studies.

²M.B.A., law, and optometry students: New M.B.A. students enrolled in 1 or more credit hours of business courses will be assessed this flat rate. Returning students will be assessed their entering rate. Enrollment in any courses other than business will be assessed on a per-credit-hour basis. Law students enrolled in or after 2001-02 with 9 or more credit hours of law courses will be assessed a flat rate, and enrollment in any courses other than law will be assessed on a per-credit-hour basis. Law students entering before 2001-02 will be assessed the credit hour rate. Optometry students enrolled in 8 or more credit hours of optometry courses will be assessed a flat rate, and enrollment in any courses other than optometry will be assessed on a per-credit-hour basis. Graduate business credit hour rates apply to students enrolled in a doctoral business program.

³To keep their candidacies active, doctoral students with 90 credit hours or more and Master of Fine Arts students with 60 credit hours or more may enroll in G901 for a flat fee of \$150.00 (Bloomington) or \$100.00 (Indianapolis). Also, they must have completed all graduate degree requirements except for the dissertation or final project/performance. Enrollment in G901 is limited to six times. Students who do not meet these criteria pay the applicable credit hour rate for dissertation research.

INSTRUCTIONAL FEES	Indiana Resident	Nonresident
	Indianapolis Campus	
Undergraduate (returning) ¹ (matriculated before summer 2003)	\$158.40/credit hour	\$502.10/credit hour
Undergraduate (new) ¹ (matriculated summer 2003 or later)	\$187.50/credit hour	\$531.75/credit hour
Graduate and Professional: ¹		
Business—M.B.A. Program	\$421.35/credit hour	\$858.90/credit hour
Business—Columbus M.B.A. Program	\$246.00/credit hour	\$665.00/credit hour
Business—M.P.A. Program	\$349.60/credit hour	\$712.70/credit hour
Dentistry	\$18,207.00/year	\$42,770.90/year
Engineering	\$247.00/credit hour	\$706.35/credit hour
Law	\$375.75/credit hour	\$830.40/credit hour
Library and Information Science	\$255.85/credit hour	\$745.30/credit hour
Medicine	\$20,864.10/year	\$40,549.20/year
Nursing	\$250.30/credit hour	\$756.95/credit hour
Public and Environmental Affairs	\$239.15/credit hour	\$662.40/credit hour
Physical/Occupational Therapy	\$298.80/credit hour	\$643.70/credit hour
Social Work	\$226.00/credit hour	\$620.40/credit hour
Master of Public Health	\$297.55/credit hour	\$722.20/credit hour
Other	\$214.95/credit hour	\$620.40/credit hour
Dissertation Research (G901) ³	\$100.00/semester	\$100.00/semester
Auditing (no credit)	applicable credit hour rate	applicable credit hour rate
Distance Education Courses	Special rates apply to many distance education courses; check with the individual program.	
MANDATORY FEES⁵	Bloomington Campus	Indianapolis Campus
Intercollegiate athletics fee	\$7.50 or \$15.00 ¹⁴	\$34.10
Student health fee ⁶	\$92.69/semester \$60.10/summer session, 6 or more credit hours	
Student activity fee ⁷	\$33.66 or \$67.36/semester \$16.82 or \$33.66/ summer session	\$45.59 to \$85.94/semester \$8.75 or \$26.25/ summer session
Technology fee, fall or spring semesters ⁸		
Undergraduate	\$47.00, \$94.00, \$186.00	\$59.00, \$118.10, \$177.10
Graduate/professional, nondegree students	\$47.00, \$94.00, \$186.00	\$52.80, \$91.20, \$186.90
Technology fee, summer sessions ⁹		
Undergraduate	\$63.50 or \$127.00	\$59.00 or \$88.50
Graduate/professional, nondegree students	\$63.50 or \$127.00	\$80.00 or \$90.00
Transportation fee ¹⁵	\$12.35, \$24.70, \$49.40/semester \$12.35, \$24.70/summer session	

⁴In addition to instructional fee rates, course fees for education, library and information science, and HPER will be assessed. Check with the specific school for current information.

⁵Assessed to all students based on the number of enrolled on-campus credit hours.

⁶The health fee is assessed each semester/session on the bursar's bill for all day and evening students enrolled in more than 6 credit hours. Eligible individuals not covered by the health fee will be seen on a fee-for-service basis.

⁷Bloomington students enrolled in 3 or fewer credit hours during the fall and spring semesters pay a mandatory student activity fee of \$33.66. Students enrolled in more than 3 credit hours pay \$67.36. Summer-session students pay a fee per session according to the number of credit hours in which they are enrolled: 3 or fewer credit hours, \$16.82; more than 3 credit hours, \$33.66. At Indianapolis, students pay a fee according to the number of credit hours in which they are enrolled each semester: 0.5 to 5.5 credit hours, \$45.59; 6 to 8.5 credit hours, \$62.26; 9 to 11.5 credit hours, \$80.67; and more than 11.5 credit hours, \$85.94. IUPUI Columbus students pay \$3.19 per credit hour up to a maximum of \$38.28 per semester.

⁸Technology fees are listed at temporary 100 percent increases until state technology funding is restored. A technology fee will be assessed according to the number of enrolled credit hours as follows: 3 credit hours or fewer; greater than 3 through 6 credit hours; greater than 6 credit hours.

INCIDENTAL FEES ¹⁰	Bloomington Campus	Indianapolis Campus
Application for admission		
Domestic, undergraduate	\$50.00	\$50.00
Domestic, graduate	\$50.00	\$50.00
International	\$60.00	\$60.00
Deferment service fee ¹¹	\$30.00	\$25.00
Late payment charge	1.5 percent of balance	\$13.25/month
Late schedule change ¹²	\$23.00/course added or dropped	\$21.00/course added
Late registration ¹³	\$59.00 to \$207.00/semester \$59.00/summer session	\$45.00 to \$100.00/semester \$45.00 to \$68.00/ summer session
Transcripts	\$9.00	\$7.00
University Division services fee (freshmen and sophomores)	\$25.00/semester	
(juniors and seniors)	\$50.00/semester	
Business undergraduate program fee ¹⁶	\$157.50, \$315.00, \$415.00/semester \$157.50, \$315.00/summer sessions	
M.B.A./M.P.A./M.S.I.S. program fee	\$200.00/academic year \$100.00/summer session	
Engineering program fee		\$18.57/credit hour

⁹At Bloomington, summer-session students are assessed a technology fee based on the number of credit hours as follows: 3 credit hours or fewer; more than 3 credit hours. At Indianapolis, a technology fee is assessed for summer sessions according to the number of enrolled credit hours as follows: 3 or fewer credit hours and more than 3 credit hours for undergraduates, and 6 or fewer credit hours and more than 6 credit hours for graduate/professional students.

¹⁰Applicable to both in-state and out-of-state students.

¹¹Fee is assessed if deferred billing option is elected.

¹²After drop/add period (100 percent refund period), students will be assessed \$23.00 in Bloomington and \$21.00 in Indianapolis for each added course, section change, change of arranged hours, or credit/audit change. On the Bloomington campus, students will also be assessed for each dropped course.

¹³A late registration fee will be assessed any student who does not register during the scheduled registration period. On the Bloomington campus, the fee is \$59.00 for students who register by the last Friday before classes begin and increases on the Monday of each successive week to a maximum of \$207.00. On the Indianapolis campus, a \$45.00 late registration fee is in effect upon conclusion of registration through the end of the first week of classes, increasing by \$23.00 the first week, \$20.00 the second week, and \$12.00 the third week to a maximum of \$100.00. In Indianapolis summer sessions, a late registration fee of \$45.00 is assessed the first week, and \$68.00 the second week and thereafter.

¹⁴Bloomington students enrolled in 3 credit hours or fewer pay \$7.50.

¹⁵At Bloomington, the ranges for the transportation fee during each semester are 3 or fewer credit hours; more than 3 through 6 credit hours; more than 6 credit hours. The ranges during each summer session are 3 or fewer credit hours; greater than 3 credit hours.

¹⁶At Bloomington, the semester ranges for the business undergraduate program fee are fewer than 6 credit hours; 6 to 12 credit hours; more than 12 credit hours. During the summer, the ranges are fewer than 6 credit hours; 6 or more credit hours.

Course Fee Refund Schedule

Time of Withdrawal	Refund
Courses less than 2 weeks in duration	
Withdrawal on 1st day of classes	100%
Withdrawal on 2nd day of classes	50%
Withdrawal on 3rd day of classes and thereafter	0%
Courses at least 2 weeks but less than 5 weeks in duration	
Withdrawal on 1st or 2nd day of classes	100%
Withdrawal on 3rd or 4th day of classes	50%
Withdrawal during 3rd week of classes and thereafter	0%
Courses at least 5 weeks but less than 9 weeks in duration	
Withdrawal during 1st week of classes	100%
Withdrawal during 2nd week of classes	50%
Withdrawal during 3rd week of classes and thereafter	0%

Time of Withdrawal	Refund
Courses at least 9 weeks or more in duration	
Withdrawal during 1st week of classes	100%
Withdrawal during 2nd week of classes	75%
Withdrawal during 3rd week of classes	50%
Withdrawal during 4th week of classes	25%
Withdrawal during 5th week of classes and thereafter	0%
Fee Refund Schedule	Applies to audit, credit-hour, and course-related fees.
Procedure	See the specific campus registrar’s Web site for more information about how to withdraw from classes.
Student Financial Assistance	Students can obtain information about financial assistance through the financial aid office, through the student employment office, or through their schools and

departments. For courses taken in Bloomington, contact Human Resources Management for information about faculty/ staff fee courtesy; for courses taken at IUPUI, contact the Office of Student Financial Aid Services.

Veterans Benefits

Eligible students will receive veterans benefits according to the following scale, which is based on the number of credit hours in which the student is enrolled.

Undergraduate Benefits	Bloomington and IUPUI	IUPUI Summer I ¹	Bloomington Summer I	Bloomington and IUPUI Summer II ¹
	Fall/Spring Semesters ¹			
full	12 or more	6	4	6
three-quarters	9-11	4-5	3	4-5
one-half	6-8	3	2	3
tuition only	fewer than 6	1-2	1	1-2
Graduate Benefits				
full	8 or more	4	4	4
three-quarters	6-7	3	3	3
one-half	4-5	2	2	2
tuition only	fewer than 4	1	1	1

It is the responsibility of the veteran or veteran dependent to sign up for benefits each semester or summer session of enrollment. It is also the responsibility of the veteran or veteran dependent on the Bloomington campus to notify the Office of Veterans Affairs of any schedule change that may increase

or decrease the amount of benefits allowed. Veterans and veteran dependents on the IUPUI campus should notify the Office of the Registrar. Veterans with service-connected disabilities may qualify for the Department of Veterans Affairs Vocational Rehabilitation Program. They

should contact their regional VA office for eligibility information.

At IUPUI, veterans and veteran dependents must notify their veteran benefit representative in the Office of the Registrar in person at the time of registration.

¹On the IUPUI campus, check with a VA representative in the Office of the Registrar for positive verification of your hourly status.

For Further Information

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

(for D.D.S., M.S., M.S.D., and Ph.D. degree programs and the Dental Hygiene program [A.S.D.H.] at Indianapolis):

Student Records and Admissions Office
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 the Bachelor of Science Degree in Public Health Dental Hygiene 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 the Oral and Maxillofacial Surgery and the General Practice Residency certificate programs):

Residency/Education Coordinator
GPR and Oral and Maxillofacial Surgery Programs
Regenstrief Health Center
1050 Wishard Blvd., Room 4201
Indianapolis, IN 46202
Telephone: (317) 278-3662; Fax: (317) 278-2243

(for the Dental Assisting program at Indianapolis):

Director of Dental Assisting
Periodontics and Allied Dental Programs
Indiana University School of Dentistry
1121 West Michigan Street
Indianapolis, IN 46202-5186
Telephone: (317) 274-4407

The School of Dentistry Student Records and Admissions Office is open 8 a.m. to 5 p.m., Monday through Friday. The dental school fax number is (317) 278-9066, and the Web site is www.iusd.iupui.edu.

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

(for programs at Fort Wayne):

Director of Dental Hygiene

or

Director of Dental Assisting

or

Director of Dental Laboratory Technology

Neff Hall 150
Indiana University–Purdue University Fort Wayne
2101 Coliseum Boulevard East
Fort Wayne, IN 46805-1499
Telephone: (260) 481-6837

(for programs at South Bend):

Director of Dental Education
(Dental Hygiene and Dental Assisting)
Riverside Hall 113

Indiana University South Bend
1700 Mishawaka Avenue
Post Office Box 7111
South Bend, IN 46634-7111
Telephone: (574) 520-4158; Fax: (574) 520-4854

(for programs at Gary):

Director of Dental Education
(Dental Hygiene and Dental Assisting)
Indiana University Northwest

3400 Broadway
Gary, IN 46408-1197
Telephone: (219) 980-6770; Fax: (219) 981-4249

Indiana University Bulletins

You may want to explore other schools of Indiana University. The following is a complete list of our bulletins. Please write directly to the individual unit or campus for its bulletin.

Indiana University Bloomington

College of Arts and Sciences
Kelley School of Business¹
School of Continuing Studies²
School of Education¹
School of Health, Physical Education, and Recreation
School of Informatics¹
School of Journalism
Division of Labor Studies
School of Law—Bloomington³
School of Library and Information Science
School of Music
School of Optometry
School of Public and Environmental Affairs¹
University Division⁴
University Graduate School

*Indiana University–Purdue University Indianapolis

* Kelley School of Business¹
* School of Continuing Studies²
* School of Dentistry
School of Education³
School of Engineering and Technology (Purdue University)
School of Health and Rehabilitation Sciences
Herron School of Art
School of Journalism
Division of Labor Studies
* School of Law—Indianapolis³
School of Liberal Arts
* School of Medicine
Military Science Program
* School of Nursing¹
School of Physical Education
School of Public and Environmental Affairs¹
School of Science (Purdue University)
* School of Social Work
* University College
University Graduate School

Indiana University East

Indiana University-Purdue University Fort Wayne

Indiana University Kokomo

Indiana University Northwest (Gary)¹

Indiana University South Bend

Indiana University Southeast (New Albany)

¹ Two bulletins are issued: graduate and undergraduate. Undergraduate information about the Schools of Business and Nursing at IUPUI is found in the IUPUI campus bulletin.

² Bulletins on the General Studies Degree Program and the Independent Study Program are available from this school.

³ There are two Indiana University schools of law. Be sure to specify whether you want a bulletin of the Bloomington or Indianapolis school.

⁴ Available only to admitted University Division students.

* IUPUI produces one campus bulletin including information about all schools listed here. Schools marked with an asterisk (*) also produce separate bulletins.

INDIANA UNIVERSITY BULLETIN
Indiana University
Bloomington, Indiana 47405

Indiana University Bulletin—Entered at the Post Office
at Bloomington, Indiana

PERIODICALS POSTAGE PAID
AT BLOOMINGTON, INDIANA