Dentistry

School of Dentistry
Indianapolis

Dean
Professor Lawrence Goldblatt*

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Graduate Faculty
(An asterisk [*] denotes membership in the University Graduate School faculty with the endorsement to direct doctoral dissertations.)

Distinguished Professor
George Stookey* (Emeritus)

Professors

Associate Professors

Assistant Professors

Adjunct Professor
Janet Hock* (Affiliate Graduate Faculty Status)

Adjunct Assistant Professor
Rachelle Galvin* (Affiliate)
Degrees Offered

Master of Science and Doctor of Philosophy. In addition, the School of Dentistry offers the Master of Science in Dentistry; for details see the School of Dentistry Bulletin.

Special School Requirements

(See also general University Graduate School requirements.)

The M.S. and Ph.D. programs are designed principally for students who expect to enter dental education and research upon completion of their programs. The M.S.D. program is intended for students interested primarily in the specialty disciplines of dentistry.

Master of Science Degree

Graduate work in the School of Dentistry leading to the M.S. degree includes advanced laboratory, lecture, library, and seminar courses in dental materials. (See School of Dentistry Bulletin for M.S.D. programs offered in the advanced specialty disciplines in dentistry.)

Admission Requirements

(1) Degree in dentistry from a recognized school of dentistry, or bachelor's degree with appropriate concentration in science (for applicants, other than dentists, who wish to pursue advanced degrees in dental science); (2) overall B (3.0) average; (3) appropriate level of achievement in course work in the major area of concentration; and (4) evidence of potential for success in advanced graduate work, as attested by letters of recommendation from major professors or others familiar with the applicant's academic performance or professional background. A personal interview may be required in some instances.

Grades

Students must maintain an academic average of at least 3.0 (B) on a 4.0 scale.

Course Requirements

A minimum of 30 credit hours of approved courses appropriate to one of the major disciplines given above, including 6 credit hours in an approved minor subject and 6 credit hours of research. Consult the School of Dentistry Bulletin and individual program directors for specific details on curricula. A maximum of 6 credit hours may be allowed for clinical courses.
Thesis
Students must submit a thesis or a manuscript for publication in a refereed journal based on the original research conducted.

Final Examinations
A comprehensive oral and written examination is taken any time after the first semester. A "defense of thesis or manuscript" examination is required upon submission of the thesis or manuscript to the student’s graduate committee.

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.

General Information

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 600 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.

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.

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.

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.

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 comprehensive written examination.

Core Curriculum
Descriptions of courses below that do not appear on the list of graduate courses in this bulletin can be found in the University Graduate School, School of Medicine, or School of Education bulletins.
Oral Biology Track

(The Oral Biology Track core curriculum has a minimum of 44 course credits, composed of 32 required and 12 minor credits.)

**Required Courses (32 cr. min.)**

**Biochemistry (3-5 cr.)**
B500 or B800 and G817

**Microbiology (3 cr.)**
J822 or J510 or J805

**General Graduate (16 cr.)**
G651, G652, G504, G865, G655, and J500, PSY 608 or EDUC R503 or other teaching method course recommended by the program director.

**Dental/Oral Biology (10-15 cr.)**
R959 or G910 and R956

**Research (remainder of 90 cr.)**
R957 and R958

Preventive Dentistry Track

(The Preventive Dentistry Track core curriculum has a minimum of 52 course credits, composed of 40 required and 12 minor credits.)

**Required Courses (40 cr. min.)**
R909, R910, F911, G974 and G959

Courses from the following list can be used to complete the total hours required for the major subject: C607, G900, G905, G911, G965, G967, G973, or R953

**General Graduate (13 credits)**
G651, G652, G504, G655 and J500, PSY 608 or EDUC R503 or other teaching method course recommended by the program director.

**Dental/Oral Biology (10-15 cr.)**
G910 or R959 and R956

**Research (remainder of 90 cr.)**
R957 and G930

**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: G981, G969, G988 or G935.

Dental Materials Track

(The Dental Materials Track core curriculum has a minimum of 51 course credits, composed of 39 required and 12 minor credits.)

**Required Courses (39 cr. min.)**
Courses from the following list can be used to complete the total hours required for the major subject: C607, G900, G911, G965, G967, G973 or R953.

**Biochemistry-Microbiology (3 credits)**
B500 or G959

**General Graduate (16 cr.)**
G651, G652, G504, G865, G655 and J500, PSY 608 or EDUC R503 or other teaching method course recommended by the program director.

**Dental Materials (20-22 credits)**
G910, G911, G912, G913 and R956

**Research (remainder of 90 cr.)**
R957 and G921