

Doctor of Dental Surgery, DDS

The Doctor of Dental Surgery (DDS) is a professional degree awarded by the College of Dentistry. Admission requirements include 90 s.h. of undergraduate credit, including specific required courses, completed at an accredited college; see Admission [p. 3] in this section of the catalog.

Students working toward a bachelor's degree in the University of Iowa College of Liberal Arts and Sciences before being admitted to the College of Dentistry may be able to complete their bachelor's degree during their first year in dentistry; see "Bachelor's Degree/DDS" under Requirements [p. 1] in this section of the catalog.

Programs designed to lead to professional licensure are subject to federal regulations regarding informational disclosures. Please see Professional Licensure Disclosures by Program for further information.

Requirements

The Doctor of Dental Surgery requires a minimum of three years of preprofessional study and four years of study in the College of Dentistry. Students are required to maintain a cumulative grade-point average of at least 2.00 to earn the degree.

Coursework during the first and second years in the College of Dentistry integrates the biomedical sciences with preclinical and clinical disciplines. The biomedical sciences include gross anatomy, biochemistry, general histology, microbiology, pathology, pharmacology, and physiology. Students also study topics specific to dentistry, such as principles of occlusion, anesthesia and pain control, operative dentistry, periodontics, prosthodontics, cariology, and preventive dentistry. During the latter part of the first year, students are introduced to their first clinical patient treatment situation.

Second-year dental students continue their study of biomedical sciences, take preclinical courses, have additional patient treatment experiences in restorative and preventive dentistry, and are introduced to aesthetic and implant dentistry.

Third-year dental students rotate through a series of clerkships that expose them to eight clinical disciplines: endodontics, operative dentistry, oral and maxillofacial surgery, oral pathology, pediatric dentistry, periodontics, prosthodontics, and oral radiology and medicine.

Fourth-year dental students deliver comprehensive dental care in conditions that closely approximate those in private dental practice. They are also exposed to varied community dentistry health programs throughout Iowa and other states that include hospitals, nursing homes, and special care clinics. They may choose to participate in the Colorado Migrant Worker Program or the Indian Health Service Program. The community dentistry programs provide exposure to facets of dentistry usually not observable in an academic setting.

Students may gain research experience by enrolling in PCD:8500 Dental Student Research Honors Program.

The Doctor of Dental Surgery requires the following coursework.

First Year, Fall

Course #	Title	Hours
BMB:8101	Biochemistry for Dental Students	3
DENT:8120	Foundations in Microbiology and Immunology	3
MPB:8115	Human Physiology for Dental Students	4
OPER:8120	Dental Anatomy	3
OPER:8122	Introduction to Operative Dentistry	1
PCD:8115	Patient Management: Ethics and Interprofessional Education	1
PCD:8116	Preventive Dentistry: Introduction	2
PCD:8117	Cariology and Preventive Therapies	2
PCD:8120	Introduction to Evidence-Based Dentistry I	1
PROS:8120	Treatment of Dentulous Patients: Introduction to Occlusion Lecture	1
PROS:8121	Treatment of Dentulous Patients: Introduction to Occlusion Lab	1

First Year, Spring

Course #	Title	Hours
DENT:8110	Patient Management: Interprofessional Education II	0
ACB:8120	Human Gross Anatomy for Dental Students	6
ACB:8121	General Histology for Dental Students	4
OMFS:8115	Anesthesia and Pain Control I	1
OPER:8124	Operative Dentistry I	5
OPRM:8120	Fundamentals of Oral Radiology	1
PCD:8118	Preventive Dentistry Assessment and Patient Care	4
PCD:8119	Patient Management: Communication Fundamentals	1
PCD:8121	Introduction to Evidence-Based Dentistry II	1
PROS:8122	Treatment of Dentulous Patients: Fixed Prosthodontics for Single Anterior Teeth Lecture	1
PROS:8123	Treatment of Dentulous Patients: Fixed Prosthodontics for Single Anterior Teeth Lab	1
PROS:8124	Treatment of Dentulous Patients: Fixed Prosthodontics for Single Posterior Teeth Lecture	1

PROS:8125	Treatment of Edentulous Patients: Fixed Prosthodontics for Single Posterior Teeth Lab	1
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Second Year, Fall

Course #	Title	Hours
DENT:8210	Patient Management: Interprofessional Education III	0
DENT:8230	Biomedical Sciences in Clinical Practice	2
OMFS:8230	Basic Oral and Maxillofacial Surgery	2
OPER:8240	Operative Dentistry II	3
OPRM:8235	Oral Pathology I	2
OPRM:8245	Introduction to Clinical Oral Radiology	1
ORDN:8215	Growth and Development	1
PATH:8133	Introduction to Human Pathology for Graduate Students	2
PCD:8245	Clinical Preventive Dentistry	2
PROS:8240	Treatment of Partially Edentulous Patients: Fixed Multi-Unit Prosthodontics Lecture	1
PERI:8220	Foundations in Periodontology	2
PROS:8241	Treatment of Partially Edentulous Patients: Fixed Multi-Unit Prosthodontics Patient Simulation I	1
PROS:8242	Treatment of Partially Edentulous Patients: Single Tooth Implant Lecture	1
PROS:8243	Treatment of Partially Edentulous Patients: Single Tooth Implant Patient Simulation	1

Second Year, Spring

Course #	Title	Hours
ENDO:8240	Preclinical Endodontics Lecture	1
ENDO:8241	Preclinical Endodontics Laboratory	1
OMFS:8245	Anesthesia and Pain Control II	1
OPER:8243	Introduction to Clinical Operative Dentistry	3
OPRM:8236	Oral Pathology II	2
OPRM:8240	Basic Pharmacology	3
ORDN:8235	Orthodontic Laboratory	1
ORDN:8236	Orthodontic Treatment	1
PCD:8218	Critical Thinking and Evidence-Based Dentistry in Treatment Planning	1
PCD:8219	Patient Management: Communication Challenges	1

PEDO:8240	Pediatric Dentistry Diagnosis and Treatment	3
PERI:8230	Advanced Topics in Periodontology	1
PROS:8244	Treatment of Partially Edentulous Patients: Removable Partial Prosthodontics Lecture	1
PROS:8245	Treatment of Partially Edentulous Patients: Removable Partial Prosthodontics Patient Simulation	1
PROS:8246	Treatment of Edentulous Patients: Removable Complete Prosthodontics Lecture	1
PROS:8247	Treatment of Edentulous Patients: Removable Complete Prosthodontics Patient Simulation	1

Third Year Clinical Rotations

In addition to fall and spring coursework, students complete the following multidisciplinary rotations throughout the year.

Course #	Title	Hours
ENDO:8370	Clinical Endodontics (10 weeks)	2
OMFS:8360	Clinical Oral and Maxillofacial Surgery (5 weeks)	4
OPER:8370	Operative Dentistry III (10 weeks)	4
OPRM:8360	Clinical Oral Diagnosis (5 weeks)	1
OPRM:8361	Clinical Oral Radiology (5 weeks)	1
OPRM:8365	Clinical Oral Pathology (5 weeks)	1
PEDO:8370	Pediatric Dentistry: Clinical Applications (10 weeks)	4
PERI:8370	Clinical Periodontology (20 weeks)	4
PROS:8370	Introduction to Clinical Prosthodontics (20 weeks)	10

Third Year, Fall

Course #	Title	Hours
DENT:8371	Quality Assurance I	1
OPRM:8355	Systemic Disease Manifestations	1
OPRM:8362	Applied Oral Radiology	1
OPRM:8368	Applied Dental Pharmacology	2
PCD:8319	Patient Management: Special Populations	1
PCD:8360	The Practice of Dentistry in the Community I	1

Third Year, Spring

Course #	Title	Hours
DENT:8360	Introduction to Clinical Orofacial Pain	1
DENT:8372	Quality Assurance II	1
PCD:8355	Introduction to Geriatric Dentistry	2
PCD:8361	The Practice of Dentistry in the Community II	2

Fourth Year Clinical Rotations

Students complete one yearlong course, FAMD:8488 Comprehensive Dental Patient Care. In addition to fall and spring coursework, students complete the following specialized rotations throughout the year.

Course #	Title	Hours
DENT:8485	Clinical Admissions Emergency	2
FAMD:8482	Dental Auxiliary Utilization	2
PCD:8489	Geriatrics and Special Needs Program (5 weeks)	4
PCD:8494	Extramural Rotation in Oral Health (5 weeks)	5

Fourth Year, Fall

Course #	Title	Hours
FAMD:8484	Dental Practice Management I	1
FAMD:8490	Seminar on Comprehensive Dental Care Topics	1
FAMD:8495	Advanced Treatment Planning I	1

Fourth Year, Spring

Course #	Title	Hours
DENT:8489	Clinical Practice and Professionalism V	1
FAMD:8485	Dental Practice Management II	1
FAMD:8497	Advanced Treatment Planning II	1

Dental Public Health Distinction Track

Students who seek this track take an additional four courses, participate in the Dental Public Health (DPH) club, and engage in community outreach activities. Students completing this track will graduate with distinction in dental public health.

The College of Dentistry also supports a fully accredited DPH graduate program for those who want to specialize in the discipline after dental school. See the Department of Preventive and Community Dentistry in the catalog for more information.

Course #	Title	Hours
Four of these:		
DPH:5000	Introduction to Dental Public Health	0,2
DPH:5005	Administration of Public Dental Programs	0,2

DPH:5014	Dental Care Policy and Financing	0,2
DPH:6003	Independent Study: Dental Public Health	1-3
ABRD:3352	International Perspectives: Xicotepec	arr.
CBH:4105	Introduction to Health Promotion and Disease Prevention	3
CPH:5100	Introduction to Public Health	3
EPID:4400	Epidemiology I: Principles	3
HMP:4000	Introduction to the U.S. Health Care System	3
HMP:5200	Healthcare Management	3
OEH:4240	Global Environmental Health	3

Combined Programs

Bachelor's Degree/DDS

The College of Liberal Arts and Sciences (CLAS) allows its students to count 30 s.h. of elective credit earned in any other University of Iowa college toward graduation with a bachelor's degree. Under this policy, CLAS students who enroll in the College of Dentistry before completing their bachelor's degree may be able to complete their degree during their first year in dentistry. Students planning to take advantage of this plan must satisfy the CLAS residence requirement in order to enroll in the College of Dentistry. They must also fulfill all requirements for the bachelor's degree, including the GE CLAS Core requirements and the requirements for a major. Contact the College of Liberal Arts and Sciences for more information.

Admission

Applicants must submit a completed Associated American Dental Schools Application Service (AADSAS) application form to the American Dental Education Association (ADEA). The AADSAS application must be completed online at the American Dental Education Association website.

Applications are accepted in June of the year that precedes the year of entry. Completed applications must be on file at ADEA by Oct. 1. Applicants should apply as early as possible. Notifications of acceptance are sent beginning in December.

Predental Studies

The basic academic requirement for admission to the College of Dentistry is completion of at least 90 s.h. of academic study at an accredited college. No more than 60 s.h. of credit is accepted from a community college or two-year institution. The predental program of study should include the following.

- English: satisfactory accomplishment in English composition, rhetoric, and speech commensurate with the academic requirements for a bachelor's degree at the college attended.
- Physics: one year (equivalent to 8 s.h.), of which one-fourth must be laboratory work.
- Chemistry: two years (equivalent to 16 s.h.), of which one year (equivalent to 8 s.h.) must be in organic chemistry; one-fourth of each year's study must be laboratory work.
- Biological science: one year (equivalent to 8 s.h.), which must include appropriate laboratory work; the requirement may be satisfied by a one-year course in principles of biology, with instruction in cell biology,

metabolism, organismic biology, animal biology, genetics, development, ecology, and evolution. Preference is given to applicants who have completed more than 8 s.h. Courses in human anatomy and cell physiology are strongly recommended.

- Biochemistry: one course (3 s.h.) that covers basic concepts in modern biochemistry and molecular biology.
- Electives: sufficient coursework in the social sciences, philosophy, psychology, history, world languages, business, and mathematics to provide a well-rounded educational background.

Grade-Point Average Requirement

Applicants should have a cumulative grade-point average (GPA) higher than 2.50 on a 4.00 scale; a GPA above 3.50 is preferred. The admissions committee gives special consideration to the quality of applicants' coursework in the pre-dental sciences, in addition to the cumulative GPA.

Interviews

Personal interviews are required of applicants for admission to the College of Dentistry. After a complete AADSAS application is received by the admissions office, select applicants are contacted to arrange an interview.

Required Dental Admission Test

All applicants must complete the Dental Admission Test (DAT) sponsored by the Council on Dental Education and Licensure of the American Dental Association. A computerized DAT is available throughout the year at designated Prometric centers. Tests must be scheduled in advance.

Test application forms are available online or by mail from the American Dental Association, 211 East Chicago Avenue, Chicago, IL 60611.

Deposit by Accepted Applicants

Applicants accepted before Feb. 1 are required to submit a \$500 deposit within 30 days after notification of admittance. Applicants admitted after Feb. 1 must submit the deposit within two weeks after notification of admittance. This deposit is not refundable but is credited toward the first fee payment. Applicants who fail to make the deposit within the time specified forfeit their place in the entering class.

Additional Admission Considerations

Fulfillment of the specific requirements listed for admission does not ensure admission to the College of Dentistry. The admissions committee reviews applicants who meet the minimum requirements and selects those who appear best qualified for the study and practice of dentistry. The committee considers quantitative and qualitative components of the application, letters of recommendation, the interview, and other factors.

Financial Support

Financial assistance for dental students is based on need. Dental students who demonstrate need are eligible for Health Professions, Stafford, and Grad PLUS loans. Students applying for loans must submit the Free Application for Federal Student Aid (FAFSA), including the parental information form on MyUI

in order to be considered for the Health Professions loan. Loans are repayable over an extended period of time after the course of study is completed.

Collegiate short-term and long-term loans are available through the financial aid coordinator at the College of Dentistry.

Tuition scholarships are awarded each year to qualified entering dental students. The awards provide financial support up to \$15,000 per year for as many as four years, if the student maintains an appropriate level of academic and professional performance.

Information on financial assistance for dental students is available from the university's Office of Student Financial Aid as well as the College of Dentistry Office of Student Affairs.

Expenses

The College of Dentistry maintains the Supply-Instrument Management System (SIMS), which provides students with instruments and supplies necessary throughout their dental training. The SIMS usage fee for the DDS is payable in installments over the four-year program.

A fee for expendable laboratory supplies is charged each of the first two years. A \$100 breakage fee also must be deposited; the deposit is refundable upon graduation or termination of enrollment.

Career Advancement

The Doctor of Dental Surgery program prepares students to practice general dentistry.