

# Doctor of Dental Surgery, DDS

## 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 Dentulous Patients: Fixed Prosthodontics for Single Posterior Teeth Lab	1

## 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:8218	Critical Thinking and Evidence-Based Dentistry in Treatment Planning	1
PCD:8245	Clinical Preventive Dentistry	2
PROS:8240	Treatment of Partially Edentulous Patients: Fixed Multi-Unit Prosthodontics Lecture	1
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:8219	Patient Management: Communication Challenges	1
PEDO:8240	Pediatric Dentistry Diagnosis and Treatment	3
PERI:8230	Fundamentals in Periodontology II	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
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## 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 (20 weeks)	4
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)	8

## 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