Orthodontics, MS

Learning Outcomes

Individuals will be:

- credentialed to practice orthodontics and dentofacial orthopedics;
- proficient in the scientific method, demonstrated by the successful defense of their MS thesis;
- proficient in biological and biomechanical principles of tooth movement as demonstrated by clinical treatment of orthodontic patients with malocclusions;
- proficient in diagnosis, treatment planning, and treatment delivery as demonstrated by clinical treatment of orthodontic patients with malocclusions;
- proficient in diagnosis, treatment planning, and treatment delivery as demonstrated by clinical treatment of craniofacial anomalies patients; and
- proficient in interdisciplinary interaction with other dental specialties such as oral surgery, pediatric dentistry, periodontics, and endodontics as demonstrated by opportunities to coordinate care of orthodontic and craniofacial anomalies patients.

Requirements

The Master of Science in orthodontics requires 65 s.h. of graduate credit. Students must satisfactorily complete a thesis based on an original research project to qualify for the MS. They must maintain a Graduate College program grade-point average of at least 3.00 to earn the degree.

Students begin the two-year program in July.

The MS in orthodontics requires the following coursework.

First Year, Summer

Course #	Title	Hours
All of these:		
ORDN:5203	Clinical Orthodontics	2
ORDN:5209	Pediatric Orthodontic Practicum	2
ORDN:5217	Cephalometrics and Lab Skills	3

First Year, Fall

Course #	Title	Hours
All of these:		
ORDN:5203	Clinical Orthodontics	2
ORDN:5204	Applied Biomechanics	1
ORDN:5205	Facial Growth	2
ORDN:5209	Pediatric Orthodontic Practicum	2
ORDN:5210	Orthodontic Seminar	2
ORDN:5211	Orthodontic Clinical Skills and Laboratory Techniques	1
ORSC:5212	Statistical Methods for Dental Research	3
ORDN:5220	Craniofacial Diagnosis, Treatment, and General Topics in Orthodontics	1
ORDN:5221	Surgical Orthodontic Seminar	1

First Year, Spring

Course #	Title	Hours
All of these:		
ORDN:5200	Temporomandibular Joints and Advanced Topics in Orthodontics	1
ORDN:5202	Advanced Case Analysis	2
ORDN:5203	Clinical Orthodontics	1
ORDN:5204	Applied Biomechanics	1
ORDN:5209	Pediatric Orthodontic Practicum	2
ORDN:5210	Orthodontic Seminar	2
ORDN:5220	Craniofacial Diagnosis, Treatment, and General Topics in Orthodontics	1
ORDN:5221	Surgical Orthodontic Seminar	1
ORDN:5400	Craniofacial Practicum	2

Second Year, Summer

Course #	Title	Hours
Both of these:		
ORDN:5209	Pediatric Orthodontic Practicum	3
ORDN:6212	Research: Orthodontics	2

Second Year, Fall

Course #	Title	Hours
All of these:		
ORDN:5204	Applied Biomechanics	1
ORDN:5209	Pediatric Orthodontic Practicum	2
ORDN:5210	Orthodontic Seminar	2
ORDN:5220	Craniofacial Diagnosis, Treatment, and General Topics in Orthodontics	1
ORDN:5221	Surgical Orthodontic Seminar	1
ORDN:5400	Craniofacial Practicum	2
ORDN:6211	Problems: Orthodontics	1
ORDN:6212	Research: Orthodontics	2
ORDN:6215	Orthodontic Journal Club	1

Second Year, Spring

Course #	Title	Hours
All of these:		
ORDN:5204	Applied Biomechanics	1
ORDN:5209	Pediatric Orthodontic Practicum	2
ORDN:5210	Orthodontic Seminar	2
ORDN:5220	Craniofacial Diagnosis, Treatment, and General Topics in Orthodontics	1
ORDN:5221	Surgical Orthodontic Seminar	1
ORDN:5400	Craniofacial Practicum	2

ORDN:6212	Research: Orthodontics	2
ORDN:6215	Orthodontic Journal Club	1

For more information, contact the Department of Orthodontics.

Graduate Education

Graduate education prepares students with advanced knowledge and skills in specialized fields. At the University of Iowa, the Graduate College advocates for student-centered graduate education and supports equitable application of rules and policies across graduate programs.

Academics

University of Iowa graduate credentials are regulated by policies and requirements found in the Graduate College Manual of Rules and Regulations. This includes minimum grade-point average (GPA) requirements for academic standing and degree conferral. The Graduate College sets the minimum requirement. Individual graduate programs may establish higher GPA requirements.

Admissions

Graduate student applicants must meet admission requirements for both the Graduate College and the program to which they have applied. University of Iowa graduate admission requirements are published by the Graduate College and on the Graduate Admissions website.

Financial Support

Graduate students might be eligible for financial support. Several contingencies apply, including degree program and award type, satisfactory progress toward degree, satisfactory completion of all duties related to an appointment, and availability of funding. Graduate students should inquire directly with their program for more information about funding availability. The Graduate Student Employment Standards govern the employment relationship between the University of Iowa and all graduate teaching and research assistants in all matters except wages, which are covered by an existing collective bargaining agreement or the conditions of an applicable federal grant.

Admission

Applicants must have a DDS degree or equivalent and meet the admission requirements of the Graduate College. The application deadline is August 1 for entry the following July 1. Applicants are required to travel to the University of Iowa for interviews with department faculty.