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 program in orthodontics requires 58 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 cumulative grade-point average of at least 3.00 to earn the degree.

Students begin work on the two-year program in July. The MS with a major in orthodontics requires the following work.

First Year, Summer

Course # | Title | Hours
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ORDN:5203 | Principles of Biomechanics | 1
ORDN:5209 | Pediatric Orthodontic Practicum | 2
ORDN:5217 | Cephalometrics and Lab Skills | 3

First Year, Fall

Course # | Title | Hours
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ORDN:5203 | Principles of Biomechanics | 1
ORDN:5205 | Facial Growth | 2
ORDN:5209 | Pediatric Orthodontic Practicum | 2
ORDN:5210 | Orthodontic Seminar | 2
ORDN:5221 | Surgical Orthodontic Seminar | 1
ORSC:5212 | Statistical Methods for Dental Research | 3

First Year, Spring

Course # | Title | Hours
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All of these: |  | 
ORDN:5200 | Temporomandibular Joints and Advanced Topics in Orthodontics | 1
ORDN:5202 | Advanced Case Analysis | 2
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

Second Year, Summer

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

Second Year, Fall

Course # | Title | Hours
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All of these: |  | 
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
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All of these: |  | 
ORDN:5209 | Pediatric Orthodontic Practicum | 2
ORDN:5210 | Orthodontic Seminar | 2
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.
Admission

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