Orthodontics

Head

• Thomas E. Southard

Professional certificate: orthodontics
Graduate degree: M.S. in orthodontics
Faculty: https://www.dentistry.uiowa.edu/orthodontics-faculty
Website: https://www.dentistry.uiowa.edu/orthodontics

The Department of Orthodontics educates predoctoral, professional, and graduate students for careers as practicing dentists, orthodontists, researchers, and teachers. It delivers state-of-the-art treatment to its patients—adults, children, and adolescents with a range of orthodontic, craniofacial, and related issues. The department also conducts major research programs and receives significant funding from the National Institutes of Health.

The goal of the graduate program in orthodontics is to educate competent individuals to initially practice orthodontics and dentofacial orthopedics. Additional goals include providing clinical services for citizens of Iowa and educating students in methods of scientific inquiry. The programs' objectives are to provide students with an in-depth education in biological and biomechanical principles related to orthodontics; to teach students to diagnose, plan, and deliver comprehensive orthodontic health care service; and to develop students' research and service skills.

Opportunities are available for research and independent study in the department, and there are special facilities for research in biomechanics and craniofacial growth. Interaction with other departments provides learning and research opportunities in surgical orthodontics, cleft lip and palate treatment, speech pathology, animal experimentation, and human growth. The overall goal of the graduate program in orthodontics is to educate competent individuals to initially practice orthodontics and dentofacial orthopedics.

D.D.S. Student Training

The Department of Orthodontics prepares Doctor of Dental Surgery students to competently recognize and diagnose malocclusions of the teeth. Lecture courses guide D.D.S. students in learning basic concepts of dental and facial growth as well as treatment-oriented subject matter. In a laboratory course, students take and evaluate diagnostic records and fabricate treatment appliances.

Programs

Professional Program of Study Certificate

• Certificate in Orthodontics

Graduate Program of Study Major

• Master of Science in Orthodontics

Courses

Orthodontics Courses

ORDN:5200 Control Theory and Craniofacial Morphogenetic Systems 0-1 s.h.
ORDN:5201 Orthodontic Theory: Diagnosis and Treatment Plan 0,2 s.h.
ORDN:5202 Diagnosis and Treatment Planning 0,2 s.h.
ORDN:5203 Advanced Orthodontic Technique 0-3 s.h.
ORDN:5204 Biomechanics 0-3 s.h.
ORDN:5205 Facial Growth 0-2 s.h.
ORDN:5206 Advanced Orthodontic Technique 0-3 s.h.
ORDN:5207 Case Analysis 0-3 s.h.
ORDN:5208 Orthodontic Practicum 0-3 s.h.
ORDN:5210 Orthodontic Seminar 0-3 s.h.
ORDN:5211 Problems: Orthodontics 0-3 s.h.
ORDN:5212 Research: Orthodontics 0-3 s.h.
ORDN:5213 Orthodontic Journal Club 0-3 s.h.
ORDM:5214 Practice Management 0-3 s.h.
ORDM:5400 Dental Treatment of Maxillofacial Deformities 0,2 s.h.
ORDM:5700 Orthodontics Clinic 0-1 s.h.
ORDN:6211 Problems: Orthodontics 0-3 s.h.
ORDN:6212 Research: Orthodontics 0-3 s.h.
ORDN:6215 Orthodontic Journal Club 0-3 s.h.
ORDN:6216 Practice Management 0-3 s.h.
ORDN:8215 Growth and Development 1 s.h.

* Normal human growth and development; emphasis on craniofacial region.
ORDN:8235  Orthodontic Laboratory  1  s.h.
Limited care case diagnosis and treatment.

ORDN:8236  Orthodontic Treatment  1  s.h.
From patient management to use of appliances for correcting some malocclusions in the general practitioner's office.