Orthodontics

Interim Head
Lina M. Moreno Uribe

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

The goal of the resident/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.

D.D.S. Student Training
The Department of Orthodontics prepares Doctor of Dental Surgery students to competently recognize malocclusions of teeth in preparation for decision making regarding treatment or referral. The lecture course guides D.D.S. students in learning concepts of dental development and facial growth to maturity, as well as treatment-oriented subject matter ranging from limited, interceptive treatment through possible comprehensive treatment options. In a laboratory course, case-based material is utilized to give students experience with evaluating diagnostic casts, radiographs, and clinical findings for space management decision-making purposes. Experience also is included in the basics of fabricating a limited range of orthodontic appliances.

Programs

Professional Program of Study Certificate
Certificate
Certificate in Orthodontics

Graduate Program of Study Major
Master
Master of Science in Orthodontics

Courses

Orthodontics Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
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| 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  | Problems: Orthodontics                    | 0-3 s.h.
| ORDN:5207  | Research: Orthodontics                    | 0-3 s.h.
| ORDN:5208  | Orthodontic Journal Club                  | 0-3 s.h.
| ORDN:5209  | Orthodontic Practicum                    | 0-3 s.h.
| ORDN:5210  | Orthodontic Seminar                      | 0-3 s.h.
| ORDN:5211  | Surgical Orthodontic Seminar              | 0-1 s.h.
| ORDN:5212  | Dental Treatment of Maxillofacial Deformities | 0,2 s.h.
| ORDN:5213  | 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 Research Club                 | 0-3 s.h.
| ORDN:6216  | Practice Management                       | 0-3 s.h.
| ORDN:6217  | Cephalometrics                            | 0-3 s.h.
| ORDN:6218  | Orthodontic Journal Club                  | 0-3 s.h.
| ORDN:6219  | Practice Management                       | 0-3 s.h.
| ORDN:8215  | Growth and Development                    | 1 s.h.
| 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.