Prosthodontics

Interim Head
- Michael J. Kanellis

Professional certificate: prosthodontics
Faculty: https://dentistry.uiowa.edu/directory
Website: https://dentistry.uiowa.edu/departments/prosthodontics

Prosthodontics is the dentistry specialty involving restoring or replacing teeth using crowns, fixed partial dentures (bridges), removable partial dentures, complete dentures, maxillofacial prostheses, and dental implants.

D.D.S. Student Training

The Department of Prosthodontics instructs Doctor of Dental Surgery students in the basic principles, practices, and concepts of prosthodontics required for the practice of general dentistry. Students learn through laboratory projects and treatment of patients with differing prosthodontic needs.

Programs

Professional Program of Study Certificate
- Certificate in Prosthodontics

Facilities

Most didactic, clinical, and laboratory instruction and patient treatment takes place in the Department of Prosthodontics, which is located in the Dental Science Building. The building also houses the Doctor of Dental Surgery (D.D.S.) program, training programs in specialties recognized by the American Dental Association, and the Iowa Institute for Oral Health Research.

The college and the department provide supporting technologies that include cone beam CT radiography, implant imaging software, laboratory CAD/CAM (computer-aided design and computer-aided manufacturing) systems, and dental lasers.

Advanced prosthodontic students spend time at University of Iowa Hospitals & Clinics, where they work closely with medical professionals in other disciplines to treat medically compromised prosthodontic patients and those who require maxillofacial rehabilitation.

Courses

Prosthodontics Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
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<tbody>
<tr>
<td>PROS:5700</td>
<td>Advanced Clinical Prosthodontics</td>
<td>0.2</td>
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<tr>
<td>PROS:5710</td>
<td>Advanced Removable Prosthodontic Technique</td>
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<tr>
<td>PROS:5720</td>
<td>Advanced Instrument Technique</td>
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<td>PROS:5730</td>
<td>Advanced Implant Techniques</td>
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<td>PROS:5740</td>
<td>Advanced Fixed Prosthodontics Technique</td>
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<td>PROS:5750</td>
<td>Clinical Issues and Treatment Planning in Prosthodontics</td>
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<td>PROS:6220</td>
<td>Fixed Prosthodontics Literature Review I</td>
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<tr>
<td>PROS:6221</td>
<td>Fixed Prosthodontics Literature Review II</td>
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<tr>
<td>PROS:6222</td>
<td>Implant Literature Review</td>
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<td>PROS:6223</td>
<td>Occlusion Seminar</td>
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<td>PROS:6224</td>
<td>Graduate Restorative Materials</td>
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<td>PROS:6700</td>
<td>Maxillofacial Prosthodontics Seminar</td>
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<tr>
<td>PROS:6710</td>
<td>Dental Implant Surgery for Prosthodontic Residents</td>
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<tr>
<td>PROS:7700</td>
<td>Maxillofacial Prosthodontics Rotation</td>
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<tr>
<td>PROS:8120</td>
<td>Treatment of Dentulous Patients: Introduction to Occlusion Lecture</td>
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<tr>
<td>PROS:8121</td>
<td>Treatment of Dentulous Patients: Introduction to Occlusion Lab</td>
<td>1</td>
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<tr>
<td>PROS:8122</td>
<td>Treatment of Dentulous Patients: Fixed Prosthodontics for Single Anterior Teeth Lecture</td>
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<tr>
<td>PROS:8123</td>
<td>Treatment of Dentulous Patients: Fixed Prosthodontics for Single Anterior Teeth Lab</td>
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<tr>
<td>PROS:8124</td>
<td>Treatment of Dentulous Patients: Fixed Prosthodontics for Single Posterior Teeth Lecture</td>
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<tr>
<td>PROS:8125</td>
<td>Complete Denture Literature Review</td>
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<tr>
<td>PROS:8220</td>
<td>RPD Literature Review</td>
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<td>PROS:8225</td>
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<td>RPD Literature Review</td>
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<tr>
<td>PROS:8227</td>
<td>Complete Denture Literature Review</td>
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Occlusion and the temporomandibular system; assigned readings and discussion of related research.

Occlusion Seminar

Lecture and literature review covering implant surgery and complications for prosthodontics residents.

Dental Implant Surgery for Prosthodontic Residents

Removable partial denture prosthodontics; assigned readings, discussion of related research.

Maxillofacial Prosthodontics Seminar

Complete denture prosthodontics; assigned readings, discussion of related research.

Maxillofacial Prosthodontics Rotation

Complete denture prosthodontics; assigned readings, discussion of related research.

Dental Implant Surgery for Prosthodontic Residents

Complete denture prosthodontics; assigned readings, discussion of related research.

Maxillofacial Prosthodontics Seminar

Introduction to Occlusion Lecture

Introduction to principles of occlusion and their clinical application.

Maxillofacial Prosthodontics Rotation

Treatment of Dentulous Patients: Introduction to Occlusion Lecture

Patient simulation exercises demonstrating principles of occlusion.

Treatment of Dentulous Patients: Fixed Prosthodontics for Single Anterior Teeth Lecture

Basic biomechanical principles of fixed posterior single tooth prosthodontics; diagnosis and treatment planning for dentate patients including occlusion. Prerequisites: PROS:8120 and PROS:8121.
PROS:8125 Treatment of Dentulous Patients: Fixed Prosthodontics for Single Posterior Teeth Lab  1 s.h.
Patient simulation exercises in single posterior tooth preparation and laboratory fabrication of single-unit posterior definitive and interim restorations. Prerequisites: PROS:8120 and PROS:8121 and PROS:8122 and PROS:8123.

PROS:8240 Treatment of Partially Edentulous Patients: Fixed Multi-Unit Prosthodontics Lecture  1 s.h.
Basic biomechanical principles of fixed prosthodontics for multiple-unit fixed prostheses; diagnosis and treatment planning for partially edentulous patient, including occlusion and esthetic concerns.

PROS:8241 Treatment of Partially Edentulous Patients: Fixed Multi-Unit Prosthodontics Patient Simulation  1 s.h.
Patient simulation exercises in preparation and fabrication of a three-unit fixed partial dental prosthesis and interim restoration.

PROS:8242 Treatment of Partially Edentulous Patients: Single Tooth Implant Lecture  1 s.h.
Principles, clinical steps, materials, and laboratory procedures necessary for single tooth fixed implant treatment. Prerequisites: PROS:8240 and PROS:8241.

PROS:8243 Treatment of Partially Edentulous Patients: Single Tooth Implant Patient Simulation  1 s.h.
Clinical steps in laboratory procedures for single tooth implant surgical guide fabrication and restoration. Prerequisites: PROS:8240 and PROS:8241.

PROS:8244 Treatment of Partially Edentulous Patients: Removable Partial Prosthodontics Lecture  1 s.h.
Basic biomechanical principles of tooth replacement with removable partial prosthodontics; diagnosis and treatment planning for partially edentulous patients. Prerequisites: PROS:8240 and PROS:8241 and PROS:8242 and PROS:8243.

PROS:8245 Treatment of Partially Edentulous Patients: Removable Partial Prosthodontics Patient Simulation  1 s.h.
Laboratory exercises in basic principles, clinical steps, and laboratory procedures necessary for fabrication of removable partial dentures. Prerequisites: PROS:8240 and PROS:8241 and PROS:8242 and PROS:8243.

PROS:8246 Treatment of Edentulous Patients: Removable Complete Prosthodontics Lecture  1 s.h.
Fundamental principles of diagnosis and treatment planning for edentulous patients, surgical and prosthodontic protocols for oral rehabilitation of edentulism. Prerequisites: PROS:8240 and PROS:8241 and PROS:8242 and PROS:8243 and PROS:8244 and PROS:8245.

PROS:8247 Treatment of Edentulous Patients: Removable Complete Prosthodontics Patient Simulation  1 s.h.
Laboratory exercises in basic principles, clinical steps, and laboratory procedures necessary for fabrication of complete dentures, including implant over-dentures. Prerequisites: PROS:8240 and PROS:8241 and PROS:8242 and PROS:8243 and PROS:8244 and PROS:8245.

PROS:8366 Prosthodontic Seminar II  1 s.h.
Application of knowledge in biological, basic sciences, and technique to clinical fixed and removable prosthodontics procedures.

PROS:8369 Introduction to Clinical Prosthodontics I  4 s.h.
Introduction to application of knowledge in principal, biological, basic sciences, and techniques to clinical fixed, removable, and implant prosthodontics procedures; clinical prosthodontics experience supplemented by individual supervision, demonstration.

PROS:8370 Introduction to Clinical Prosthodontics 8 s.h.
Application of knowledge in principal, biological, basic sciences, and techniques to clinical fixed, removable, and implant prosthodontics procedures; clinical prosthodontics experience supplemented by individual supervision, demonstration.