

Oral Science, MS

Requirements

The Master of Science program in oral science requires a minimum of 30-33 s.h. of graduate credit, including independent research leading to a thesis and a final examination.

Students pursuing the MS must be enrolled in a clinical specialty training program offered by a College of Dentistry department. Specific course requirements vary depending on the clinical specialty. Students typically complete the MS and the clinical specialty training program in three years of study.

The master's program is offered in conjunction with a certificate in one of six clinical subprograms: endodontics [p. 1], operative dentistry [p. 1], oral and maxillofacial pathology [p. 1], oral and maxillofacial radiology [p. 2], periodontics [p. 2], or prosthodontics [p. 2].

Core Courses

The following courses are required for all students seeking the MS in oral science.

Course #	Title	Hours
All of these:		
ORSC:5210	Dental Sciences Research Methodology	2
ORSC:5212	Statistical Methods for Dental Research	3
ORSC:5215	Research Design in Dentistry	2

Endodontics Subprogram

The subprogram in endodontics requires a minimum of 32 s.h. of graduate credit (24 s.h. of didactic credit including the core courses and 8 s.h. of research credit). Students enrolled in the professional certificate in endodontics have the option to complete the MS in oral science, endodontics subprogram and may be able to use some courses to satisfy requirements in both programs. The following coursework is required.

Course #	Title	Hours
All of these:		
ORSC:5240	Pathophysiology of the Pulp-Dentin Complex	2
ORSC:5260	Bone and Tooth Support Structure and Implants	2
ORSC:5275	Oral Microbiology and Immunology	2
ORSC:5280	Advanced Dental Therapeutics	1
ORSC:5300	Dental Management for Patients With Complex Medical History	1
ENDO:5260	Current Literature in Endodontics	1
ENDO:5700	Endodontic Surgery Conference	2
ENDO:5701	Advanced Clinical Endodontics (taken twice for 3 s.h. each)	6

This research course:

ORSC:5600	Research in Oral Science (taken multiple times for a total of 8 s.h.)	8
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Operative Dentistry Subprogram

The MS in oral science with a subprogram in operative dentistry requires a minimum of 30 s.h. of graduate credit (21 s.h. of didactic credit including the core courses and 9 s.h. of research credit). Students enrolled in the professional certificate in operative dentistry are required to complete the MS or PhD in oral science, operative dentistry subprogram and may be able to use some courses to satisfy requirements in both programs. If students have already completed a master's or doctoral program equivalent to a U.S. program, they may contact the program director to see if this requirement may be waived. The following coursework is required.

Course #	Title	Hours
All of these:		
ORSC:5200	Seminars in Dental Research (taken three times for 1 s.h. each)	3
ORSC:5240	Pathophysiology of the Pulp-Dentin Complex	2
ORSC:5250	Current Concepts of Cariology	2
ORSC:5280	Advanced Dental Therapeutics	1
DPH:6002	Research Protocol Seminar	2
GRAD:6217	Seminar in College Teaching	2
PROS:6224/ OPER:6225	Graduate Restorative Materials	2
This research course:		
ORSC:5600	Research in Oral Science (taken multiple times for a total of 9 s.h.)	9

Oral and Maxillofacial Pathology Subprogram

The MS in oral science with a subprogram in oral and maxillofacial pathology requires a minimum of 33 s.h. of graduate credit (24 s.h. of didactic credit including the core courses and 9 s.h. of research credit). Students enrolled in the professional certificate in oral and maxillofacial pathology have the option to complete the MS in oral science, oral and maxillofacial pathology subprogram and may be able to use some courses to satisfy requirements in both programs. The following coursework is required.

Course #	Title	Hours
All of these:		
ORSC:5200	Seminars in Dental Research (taken twice for 1 s.h. each)	2
ORSC:5280	Advanced Dental Therapeutics	1
DPH:6017	Teaching Methods and Evaluation	2
MED:8133	Mechanisms of Health and Disease II	7
OPRM:5200	Stomatology Literature Review	1
OPRM:5226	Oral Pathology for Graduate Students	1

OPRM:5256	Advanced Oral Pathology	1
OTO:8199	Foundations of Otolaryngology	2
This research course:		
ORSC:5600	Research in Oral Science (taken multiple times for a total of 9 s.h.)	9

Oral and Maxillofacial Radiology Subprogram

The MS in oral science with a subprogram in oral and maxillofacial radiology requires a minimum of 30 s.h. of graduate credit (22 s.h. of didactic credit including the core courses and 8 s.h. of research credit). Students enrolled in the professional certificate in oral and maxillofacial radiology have the option to complete the MS in oral science, oral and maxillofacial radiology subprogram. The following coursework is required.

Course #	Title	Hours
All of these:		
FRRB:3110	Medical Physics I	1
FRRB:3130	Introduction to Radiation Safety and Radiobiology	1
FRRB:3215	Medical Physics II	2
OPRM:5200	Stomatology Literature Review	1
OPRM:5226	Oral Pathology for Graduate Students	1
OPRM:5242	Clinical Oral and Maxillofacial Radiology	1
OPRM:5243	Practical Oral and Maxillofacial Radiology	1
OPRM:5244	Technical Oral and Maxillofacial Radiology	1
OPRM:5245	Head and Neck Radiology	1
OTO:8199	Foundations of Otolaryngology	2
PATH:8133	Introduction to Human Pathology for Graduate Students	3
This research course:		
ORSC:5600	Research in Oral Science (taken at least once, may be taken multiple times for a total of 8 s.h.)	8

Periodontics Subprogram

The MS in oral science with a subprogram in periodontics requires a minimum of 32 s.h. of graduate credit (23 s.h. of didactic credit including the core courses and 9 s.h. of research credit). Students enrolled in the professional certificate in periodontics are required to complete the MS in oral science, periodontics subprogram and may be able to use some courses to satisfy requirements in both programs. The following coursework is required.

Course #	Title	Hours
All of these:		
ORSC:5260	Bone and Tooth Support Structure and Implants	2

ORSC:5275	Oral Microbiology and Immunology	2
ORSC:5280	Advanced Dental Therapeutics	1
OMFS:5208	Pain and Anxiety Control	1
OPRM:5226	Oral Pathology for Graduate Students	1
PERI:5220	Periodontics Classic Literature Review (taken multiple times for a total of 6 s.h.)	6
PERI:5710	Case Management Seminar	1
PERI:7208	Recent Advances in Periodontics	1
PERI:7701	Practice Teaching in Periodontics	1
This research course:		
ORSC:5600	Research in Oral Science (taken multiple times for a total of 9 s.h.)	9

Prosthodontics Subprogram

The MS in oral science with a subprogram in prosthodontics requires a minimum of 30 s.h. of graduate credit (22 s.h. of didactic credit including the core courses and 8 s.h. of research credit). Students enrolled in the professional certificate in prosthodontics are required to complete the MS in oral science, prosthodontics subprogram and may be able to use some courses to satisfy requirements in both programs. The following coursework is required.

Course #	Title	Hours
All of these:		
ORSC:5240	Pathophysiology of the Pulp-Dentin Complex	1
ORSC:5260	Bone and Tooth Support Structure and Implants	2
ORSC:5275	Oral Microbiology and Immunology	2
ORSC:5280	Advanced Dental Therapeutics	1
DPH:6002	Research Protocol Seminar	2
OMFS:5208	Pain and Anxiety Control	1
OPRM:5226	Oral Pathology for Graduate Students	1
OTO:8199	Foundations of Otolaryngology	3
PROS:6224	Graduate Restorative Materials	2
This research course:		
ORSC:5600	Research in Oral Science (taken multiple times for a total of 8 s.h.)	8