

# PERIODONTICS

## Plan of Study

### First Year

		Credit Hours
Fall		
MSDS 5157	Research 1- Project Proposal	1
MSDS 5020	Dental Biomed Core 1	4
MSDS 5090	Grad Research Methodology	2
MSDS 5121	Biostatistics	1
PERI 5031	Periodontics Lecture Series	2
PERI 5073	Literature Seminars	1
INTD 5013	Perio/Pros/Endo/Orth Interdisciplinary Course 1	1
PATH 5035	Oral Pathology	2
PERI 5052	Surgical Anatomy	1
PROS 5050	Dental Implantology	1
	Total Credit Hours:	16.0

### First Year

		Credit Hours
Spring		
MSDS 5257	Research 1- Project Proposal	2
MSDS 5021	Dental Biomed Core 2	1
INTD 5013	Perio/Pros/Endo/Orth Interdisciplinary Course 1	1
PERI 5035	Peri Lecture Series	1
PERI 5073	Literature Seminars	1
	Total Credit Hours:	6.0

### Second Year

		Credit Hours
Fall		
MSDS 6357	Research 2- Data Collection	3
	Total Credit Hours:	3.0

### Second Year

		Credit Hours
Spring		
MSDS 6357	Research 2- Data Collection	3
	Total Credit Hours:	3.0

### Third Year

		Credit Hours
Fall		
MSDS 6058	Research 3- Data Analysis	2
	Total Credit Hours:	2.0

### Third Year

		Credit Hours
Spring		
MSDS 6098	Thesis	1-4
	Total Credit Hours:	1.0-4.0

## Courses

### INTD 5013. Perio/Pros/Endo/Orth Interdisciplinary Course 1. 1 Credit Hour.

A seminar that brings together the residents and graduate staff from the periodontic, prosthodontic, endodontic and orthodontic postdoctoral programs to share clinically relevant multidisciplinary information. Patient diagnostic evaluations and treatment plans are evaluated in an interactive environment. Selected topics involving new advancements are presented and discussed.

### MSDS 5020. Dental Biomed Core 1. 4 Credit Hours.

The Biomedical Core Course will provide a multidisciplinary approach to basic science instruction as it relates to the clinical practice of dentistry. Both basic science and clinical science faculty will participate to provide a sound base of material required by each program. Individual programs will supplement the Biomedical Core Course in the basic science areas particular to that discipline. This combination of core instruction with individual supplementation should provide the advanced education student the appropriate background in biomedical science.

### MSDS 5021. Dental Biomed Core 2. 1 Credit Hour.

This course is a continuation of MSDS 5020 Dental Biomedical Core Course 1.

### MSDS 5090. Grad Research Methodology. 2 Credit Hours.

This course is an introduction to methods and techniques used in dental research. Topics will include basic assumptions and concepts of scientific research, selecting research topics, specifying objectives and hypotheses, literature reviews, and experimental design.

### MSDS 5121. Biostatistics. 1 Credit Hour.

This course is designed to prepare the advanced education dentist with the knowledge of common statistical methods in order to critically evaluate the literature and to perform necessary analyses in support of their own research projects, particularly those directed at the completion of the Certificate from the Dental School and/or the Master of Science degree from the Graduate School of Biomedical Sciences.

### MSDS 5157. Research 1- Project Proposal. 1 Credit Hour.

The introductory course in research design and protocol development is limited to postdoctoral students enrolled in advanced education programs. It is the 1st of four required core research courses for the Master of Science in Dental Science curriculum. Registration for this course requires permission by the respective program director for a particular Master of Science educational track. The course occurs during the PGI year offered in the spring semester. In fulfillment of the Master of Science degree, registration for this course requires completion of INTD 5257 in the preceding semester.

### MSDS 5257. Research 1- Project Proposal. 2 Credit Hours.

The introductory course in research design and protocol development is limited to postdoctoral students enrolled in advanced education programs. It is the 1st of four required core research courses for the Master of Science in Dental Science curriculum. Registration for this course requires permission by the respective program director for a particular Master of Science educational track. The course occurs during the PGI year offered in the spring semester.

**MSDS 6058. Research 3- Data Analysis. 2 Credit Hours.**

The course focusses analysis of research data and experimental design. Enrollment limited to postdoctoral students in advanced education programs who have completed successfully INTD 6057. This is the 3rd of four required core research courses for the Masters of Science in Dental Science curriculum. Registration for this course requires permission by the respective program director for a particular Masters of Science education track. The course occurs during the PG II year offered and is offered in both fall and spring semesters. Credit hours vary between educational tracks for a semester from 1-2 hours, with a total of 2 credit hours required for course completion.

**MSDS 6098. Thesis. 1-4 Credit Hours.**

The research thesis course is limited to postdoctoral students in advanced education programs who have completed successfully INTD 6058. This is the 4th of four required core research courses for the Masters of Science in Dental Science curriculum. Registration for this course requires permission by the respective program director from a particular Masters of Science education track. The course is offered in fall, and spring semesters. Credit hours vary between educational tracks for a semester from 1-4. The course occurs during the PG II and PG II year offered in summer, fall, and spring semesters. Credit hours vary between educational tracks for a semester from 1-4 hours, with a total of 4 credit hours required for course completion.

**MSDS 6357. Research 2- Data Collection. 3 Credit Hours.**

This course focuses on refining research design, implementation, and data collection. Enrollment limited to postdoctoral students in advanced education programs who have completed successfully INTD 5257 and INTD 5157 or INTD 5357 in PG1. This is the 2nd of four required core research courses for the Master of Science in Dental Science curriculum. Registration for this course requires permission by the respective program director for a particular Master of Science education track. The course occurs during the PG2 year offered in fall and spring semesters. In fulfillment of the Master of Science degree, registration for this course requires registration for INTD 6357 for two semesters.

**PATH 5035. Oral Pathology. 2 Credit Hours.**

Clinicopathologic correlations, differential diagnosis, and therapeutic rationale are emphasized. The integration of history, physical findings, and clinical laboratory data with pertinent radiographic findings, clinical presentations, and anatomic pathology will be emphasized.

**PERI 5031. Periodontics Lecture Series. 2 Credit Hours.**

This course is designed to instruct the student in all aspects of periodontology. It is meant to be an adjunct to the PERI 6073 Literature Seminar. Topics dealing with basic science, pathobiology, and clinical and surgical aspects of periodontal disease will be discussed.

**PERI 5035. Peri Lecture Series. 1 Credit Hour.**

This course is designed to instruct the student in all aspects of periodontology. It is meant to be an adjunct to the PERI 6073 Literature Seminar. Topics dealing with basic science, pathobiology, and clinical and surgical aspects of periodontal disease will be discussed. Cross-listed/ Concurrent: PERI 6030/6031.

**PERI 5052. Surgical Anatomy. 1 Credit Hour.**

This course emphasizes the learning of the head and neck anatomy that is related directly to surgical procedures performed by periodontists and endodontists and the practice of prosthodontic dentistry. Anatomic structures related to implant placement receive special emphasis. Surgical complications related to anatomy are described. A prosection on human cadavers is presented with a strong emphasis on surgical anatomy.

**PERI 5073. Literature Seminars. 1 Credit Hour.**

This course is designed to familiarize the student with the historical and contemporary literature related to periodontics. The first-year course is concerned mainly with basic science literature while second- and third-year courses concentrate on the clinical literature. Students have the opportunity to evaluate the data in the literature, critique experimental design, abstract articles, critically evaluate research findings, and learn to use library resources.

**PROS 5050. Dental Implantology. 1 Credit Hour.**

This course offers graduate level students an introduction to the basics of the osseointegrated implant surgical and prosthetic technique. Lectures on advanced concepts of osseointegration therapy related to several implant systems are included.