## 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, prosthetic, 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. This course occurs during
the PGI year offered in the spring 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 completion of MSDS 5257 in the preceding semester.

MSDS 5515. 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.

MSDS 5527. 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.

## Plan of Study

### First Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>MSDS 5157</td>
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<tr>
<td>MSDS 5020</td>
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<tr>
<td>MSDS 5090</td>
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<tr>
<td>MSDS 5112</td>
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<tr>
<td>PERI 5031</td>
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<tr>
<td>PERI 5073</td>
<td>1</td>
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<tr>
<td>INTD 5013</td>
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<tr>
<td>PATH 5035</td>
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<tr>
<td>PERI 5052</td>
<td>1</td>
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<td>PROS 5050</td>
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Total Credit Hours: 16.0

### First Year

<table>
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<th>Course</th>
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<tbody>
<tr>
<td>MSDS 5257</td>
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<td>MSDS 5021</td>
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<tr>
<td>INTD 5013</td>
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<tr>
<td>PERI 5035</td>
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<td>PERI 5073</td>
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Total Credit Hours: 6.0

### Second Year

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Total Credit Hours: 3.0

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<th>Course</th>
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<tbody>
<tr>
<td>MSDS 6357</td>
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Total Credit Hours: 3.0

### Third Year

<table>
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<th>Course</th>
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<td>MSDS 6058</td>
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Total Credit Hours: 2.0

### Third Year

<table>
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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>MSDS 6098</td>
<td>1-4</td>
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</table>

Total Credit Hours: 1.0-4.0
MSDS 6058. Research 3- Data Analysis. 2 Credit Hours.
The course focuses analysis of research data and experimental design. Enrollment limited to postdoctoral students in advanced education programs who have completed successfully MSDS 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 MSDS 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 MSDS 5257 and MSDS 5157 or MSDS 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 PG II year offered in fall and spring semesters. In fulfillment of the Master of Science degree, registration for this course requires registration for MSDS 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.