DENTAL GRADUATE COURSE (DENG)

DENG 701. Introduction to Research Design. 1 Credit.
Introduction to scientific methodology, clinical epidemiology, oral biology and technology transfer, clinical trials, evaluation of scientific literature, experiments of nature, animal models for oral research, ethics in research, laboratory simulations and research models, and proposal writing.
Grading status: Letter grade.

DENG 702. Biostatistics. 2 Credits.
Introduction of biostatistical concepts, sampling, descriptive statistics, hypothesis testing, comparisons of means and proportions, $2 \times 2$ and $r \times c$ tables, correlation and simple regression, sample size and power, analysis of variance, factorial anova, multiple regression, and nonparametric tests.
Grading status: Letter grade.

DENG 703. Applied Dental Research Methods. 2 Credits.
This course builds on previous courses, DENG 701 Introduction to Research Methods and DENG 702 Biostatistics. The goal is to help students prepare and complete the thesis with emphasis on the results section.
Grading status: Letter grade.

DENG 704. Interdisciplinary Care Conference. 1 Credit.
For first & second-year dental graduate students. Review and discussion of the diagnoses, treatment plans, prognoses, and interdisciplinary care of selected patients.
Repeat rules: May be repeated for credit.
Grading status: Letter grade.

DENG 707. Regional Anatomy. 3 Credits.
Review of the anatomy of the head and neck region, including osteology, cardiovascular system, head and neck embryology, special sensory modalities, nervous system, functional nervous system, and extraoral correlation with the oral cavity.
Grading status: Letter grade.

DENG 720. Applied Pharmacology. 1 Credit.
This course is designed for dental practitioners with sufficient general and specific clinical pharmacology knowledge to appropriately and safely utilize drugs in treatment. The course will be concentrated in three areas: general clinical pharmacology principles, general clinical pharmacology of medications, specific clinical pharmacology of drugs utilized by dental practitioners.
Grading status: Letter grade.

DENG 751. Advanced Pain and Anxiety Control. 2 Credits.
Introduction to: operating room and recovery room protocol; patient cardiovascular and pulmonary evaluation; adjunct and inhalant agents; nitrous oxide; pharmacology of IV anesthetic agents; EKG interpretation; arterial blood gases; anesthesia equipment monitoring; anesthetic complications and emergencies; fluid and electrolyte and blood therapy; airway management; venipuncture; pediatric anesthesia; and pre-op evaluation, orders, and rounds.
Grading status: Letter grade.

DENG 799. Orientation for Clinical and Research Program. 1 Credit.
During this course, students complete required clinical training in the program and the School of Dentistry, attend a library orientation, and are introduced to MS Research procedures and requirements.
Grading status: Letter grade.

DENG 890. Special Topics in Dentistry. 1-3 Credits.
This course will cover emerging issues or specialized content not represented in the main curriculum.
Repeat rules: May be repeated for credit. 12 total credits. 4 total completions.
Grading status: Letter grade.

DENG 901. Research. 1-6 Credits.
The goal of this course is to provide students an opportunity to investigate and explore different research areas prior to their choice of a mentor and specific project for their master's or doctoral degree.
Repeat rules: May be repeated for credit. 15 total credits. 5 total completions.
Grading status: Letter grade.