Oral Sciences

Mailing Address:
College of Dentistry (MC 621)
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Campus Location: 202D DENT
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Administration:
Dean of the College: G. William Knight (Interim)
Director of Graduate Studies: Herve Y. Sroussi

Program Codes:
20FS1525MS (MS)
20FS1525PHD (PhD)

The College of Dentistry offers a program of study and research leading to the Master of Science degree in Oral Sciences. The program prepares the next generation of dental faculty and clinicians who will serve as leaders in oral healthcare and within their respective dental specialties. Graduate students will continue to work and maintain oral health. The MS in Oral Sciences program accepts only students who have already been accepted into one of the College of Dentistry's postgraduate specialty programs. In addition to course work, a research thesis and a final thesis defense are required.

The College of Dentistry also offers a program of study leading to the Doctor of Philosophy in Oral Sciences to train the next generation's cadre of oral health scientists. Oral Sciences utilizes cutting-edge biomedical technology and knowledge to address basic and clinical research questions of importance for promoting and maintaining oral health. This interdisciplinary research training program will lead to a graduate degree with a focus in cancer biology; wound healing; tissue regeneration; cellular, molecular, and development biology; biomaterials science; microbiology/immunology or other biomedical field relevant to oral health and disease. The program also offers an opportunity to integrate the PhD training with a DMD or dental specialty training, as well as subsequent to a BS or DMD degree.

Admission and Degree Requirements

- MS in Oral Sciences (http://catalog.uic.edu/gcat/colleges-schools/dentistry/osci/ms)
- PhD in Oral Sciences (http://catalog.uic.edu/gcat/colleges-schools/dentistry/osci/phd)

Courses

OSCI 441. Statistics for Oral Sciences. 3 hours.
Prepares students enrolled in the Master of Science in Oral Sciences for the thesis research project. Students learn how to collect, organize and analyze data and apply this knowledge and skill to future research projects. Course Information: Extensive computer use required. The course is taught in an online format.

OSCI 451. Research Methodology. 1 hour.
Designed to help the student understand, utilize and appreciate the process of scientific inquiry. Course Information: Primarily intended for students enrolled in the Master of Science in Oral Sciences degree program. Prerequisite(s): Matriculation into the Master of Science in Oral Sciences program, or courses in basic biological sciences or the equivalent background and consent of the instructor.

OSCI 452. Biological Basis of Oral Diseases. 2 hours.
Focuses on the biological basis of oral disease and modern concepts in the biomedical sciences. Course Information: Prerequisite(s): BCMG 411 and HSTL 451 or the equivalent courses, or consent of the instructor.

OSCI 504. Advanced Dental Materials. 3 hours.
A seminar course designed to develop an advanced understanding of dental materials and a fundamental knowledge of materials science. Involves a critical evaluation of the literature.

OSCI 506. Advanced Oral Histology and Immunology. 2 hours.
Lectures and discussions on the structure and functions of lymphoid tissues with special interest in orally related diseases. Course Information: Previously listed as HSTL 506. Prerequisite(s): HSTL 401 and consent of the instructor.

OSCI 531. Peer Reviewed Publishing. 3 hours.
Preparation and submission of a manuscript suitable for a peer-reviewed publication. Course Information: 3 hours. Prerequisite(s): Open only to students in the UIC College of Dentistry Postgraduate Specialty Programs. Class Schedule Information: To be properly registered, students must enroll in one Discussion and one Laboratory.

OSCI 534. Dental and Medical Anthropology Within Human Evolution. 1-3 hours.
Studies the biological and physical anthropology of hominid teeth and the craniofacial complex with relevant medical anthropology, ethnopharmacology, forensic sciences, and paleo-pathology topics. Course Information: Same as ANTH 534 and PMPG 534. Field work required. A lab experience, independent study and a research paper is required for 3 hours of credit. Prerequisite(s): Graduate standing and consent of the instructor.

OSCI 544. Advanced Craniofacial Anatomy. 3 hours.
Functional and clinical aspects of head and neck anatomy. Includes laboratory dissection and readings from the anatomical, clinical and other literature. Course Information: Same as ANAT 544. Specimen provision by sponsoring department required. Prerequisite(s): DDS or MD degrees, a course in human head and neck anatomy. Class Schedule Information: To be properly registered, students must enroll in one Laboratory-Discussion and one Lecture-Discussion.

OSCI 580. Advanced Oral Sciences I. 2 hours.
Discussion follows presentation of faculty research. Topics include developmental and molecular biology, tissue engineering, genetics and structural biology in tandem with cutting-edge dental technology.

OSCI 581. Advanced Oral Sciences II. 2 hours.
Continuation of OSCI 580. Course Information: Prerequisite(s): OSCI 580.

OSCI 583. Research Laboratory Rotation. 1-4 hours.
Students participate directly in laboratory research; learn to approach a scientific problem and to perform various experimental techniques to investigate the problem. Course Information: May be repeated to a maximum of 6 hours.
OSCI 590. Hominid Evolution, Dental Anthropology, and Human Variation. 1 hour.
Evolution; hominid origins; organization and development of human dentition, agenesis, metric and non-metric variation in tooth form, human growth and maturation, variation and adaptation. Course Information: Prerequisite(s): Consent of the instructor.

Faculty supervised research projects. Research may not duplicate that being done in OSCI 598. Course Information: Satisfactory/Unsatisfactory grading only. Prerequisite(s): Consent of the instructor.

OSCI 594. Special Topics in Oral Sciences. 1-4 hours.
Content varies. Selected topics of current interest in oral sciences. Course Information: May be repeated. Students may register in more than one section per term. Prerequisite(s): Graduate or postgraduate standing and consent of the instructor.

OSCI 595. Oral Science Research Seminar. 1 hour.
Oral science research presentations and journal article discussion by students. Course Information: Satisfactory/Unsatisfactory grading only. May be repeated. Prerequisite(s): Enrollment in the PhD or MS in Oral Sciences, or consent of the instructor.

OSCI 596. Independent Study. 1-4 hours.
Faculty-supervised independent study not included in regular course offerings. Course Information: May be repeated. Students may register in more than one section per term. Prerequisite(s): Consent of the instructor.

OSCI 598. Master's Thesis Research. 0-16 hours.
Thesis research to fulfill master's degree requirements. Course Information: Satisfactory/Unsatisfactory grading only. May be repeated. Prerequisite(s): Matriculation into the Master of Science in Oral Sciences program and consent of the director of graduate studies.

OSCI 599. Doctoral Thesis Research. 0-16 hours.
Independent investigation carried out by Ph.D.candidates under supervision of the student's Advisory Committee. Course Information: Satisfactory/Unsatisfactory grading only. Prerequisite(s): Satisfactory completion of Candidacy Examination.