Oral Science

Director
• Jeffrey A. Banas (Pediatric Dentistry)

Graduate degrees: M.S. in oral science; Ph.D. in oral science
Website: https://www.dentistry.uiowa.edu/dental-research-oralscience-program

Graduate programs in oral science require that students complete courses from a core curriculum and conduct independent research leading to a thesis. The programs prepare graduates for careers in teaching and research.

Students must enroll in a professional certificate program offered by a College of Dentistry department in order to enroll in the Master of Science program in oral science. The following departments offer their certificate students the opportunity to earn M.S. degrees in oral science: endodontics, prosthodontics, operative dentistry, periodontics, and oral pathology, radiology, and medicine.

Programs

Graduate Programs of Study

Majors
• Master of Science in Oral Science
• Doctor of Philosophy in Oral Science

Courses

Oral Science Courses

ORSC:5200 Seminars in Dental Research 0-1 s.h.

ORSC:5210 Dental Sciences Research Methodology 0,2 s.h.
Practical, experimental procedures in dental research; literature and design; writing of research protocols. Offered summer session.

ORSC:5212 Statistical Methods for Dental Research 0,3 s.h.
Descriptive methods, elementary probability, distributions, populations and samples, methods for analyzing percentage data and paired and unpaired measurement data, regression, correlation, and analysis of variance.

ORSC:5215 Research Design in Dentistry 0,2 s.h.
Types of studies used in dentistry; design validity; sampling methodologies; major descriptive and experimental designs used in dental research; application of statistical tests to these designs. Offered spring semesters.

ORSC:5240 Pathophysiology of the Pulp-Dentin Complex 0-3 s.h.
Biology of tissue; emphasis on pathological changes. Offered spring semesters of even years. Prerequisites: ORSC:5210.

ORSC:5250 Current Concepts of Cariology 0,2 s.h.
Etiology of dental caries; pathogenesis, development of preventive measures. Offered spring semesters of odd years. Prerequisites: ORSC:5210.