

ORAL AND CRANIOFACIAL BIOMEDICINE (OCBM)

Additional Resources

- Catalog Course Search (<https://catalog.unc.edu/course-search/>)
- Course Numbering Guide (<https://catalog.unc.edu/courses/course-numbering/>)
- Scheduled Classes (<https://reports.unc.edu/class-search/>)
- Historical Course Record (https://reports.unc.edu/historical_course_record/)

Any courses approved after June 1, 2026 will not appear in the 2026-27 Academic Catalog but will be available in ConnectCarolina.

Courses

OCBM 701. Research Techniques in Oral & Craniofacial Biomedicine. 3 Credits.

The course familiarizes participants with a selection of specialized research techniques employed in interdisciplinary basic science approaches to problems in oral & craniofacial biomedicine. Four laboratory hours a week. Permission of the instructor.

Rules & Requirements

Repeat Rules: May be repeated for credit. 12 total credits. 4 total completions.

Grading Status: Letter grade.

OCBM 710. Discussion in Oral & Craniofacial Biomedicine. 1 Credits.

A series of seminars on topics relevant to research and scientific knowledge in the field of oral & craniofacial biomedicine. Visiting scientists from other research centers in the country and abroad participate in the discussion series. One lecture hour a week. Permission of the instructor.

Rules & Requirements

Repeat Rules: May be repeated for credit. 4 total credits. 4 total completions.

Grading Status: Letter grade.

OCBM 721. Extracellular Matrix Biology. 1 Credits.

Focuses on the roles of extracellular matrices during normal development and disease and mechanisms of ECM during cellular and tissue growth and development, and processes associated with the structures and molecules which comprise craniofacial and related tissues.

Rules & Requirements

Grading Status: Letter grade.

OCBM 722. Oral Biology of Host Pathogens Interactions. 1 Credits.

Emphasizes basic principles of infection, immunity, host response, and inflammation and the application of these concepts to diseases and disorders associated with the oral and craniofacial region.

Rules & Requirements

Grading Status: Letter grade.

OCBM 723. Introductory Pain Neurobiology. 1 Credits.

Advanced level understanding of the underlying biological processes that contribute to the transmission and modulation of acute and chronic pain and pharmacologic management of acute and chronic pain: detailing the mechanism of action of commonly used drugs as well as exploring new drug targets.

Rules & Requirements

Grading Status: Letter grade.

Same as: NBIO 721.

OCBM 724. Diagnosis and Treatment of Orofacial Pain Conditions. 1 Credits.

Focuses on the current concepts in the diagnosis and management of Orofacial Pain conditions.

Rules & Requirements

Grading Status: Letter grade.

OCBM 731. Biological Concepts. 1.5 Credits.

Overview of structures and biological determinants of conditions and diseases of the oral cavity. Both growth and development and pathophysiology will be introduced in the context of three areas of oral biology: biology of extracellular matrices, host-pathogens interactions, and orofacial neurobiology.

Rules & Requirements

Grading Status: Letter grade.

OCBM 732. Biological Concepts. 1.5 Credits.

Overview of structures and biological determinants of conditions and diseases of the oral cavity. Both growth and development and pathophysiology will be introduced in the context of three areas of oral biology: biology of extracellular matrices, host-pathogens interactions, and orofacial neurobiology.

Rules & Requirements

Grading Status: Letter grade.

Same as: NBIO 732, PHCO 747.

OCBM 780. Introduction to Scientific Writing. 1 Credits.

Seminar series that will give generic instructions covering grant writing skills and structure, as well as offer insight for scientific writing.

Rules & Requirements

Grading Status: Letter grade.

OCBM 993. Master's Research and Thesis. 3 Credits.

Permission of the instructor.

Rules & Requirements

Repeat Rules: May be repeated for credit.

OCBM 994. Doctoral Research and Dissertation. 3 Credits.

Doctoral Research and Dissertation. Permission of the instructor.

Rules & Requirements

Repeat Rules: May be repeated for credit.