

# ORAL BIOLOGY (OBIO)

Subject-area course lists indicate courses currently active for offering at the University of Louisville. Not all courses are scheduled in any given academic term. For class offerings in a specific semester, refer to the Schedule of Classes (<http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm>).

500-level courses generally are included in both the undergraduate- and graduate-level course listings; however, specific course/section offerings may vary between semesters. Students are responsible for ensuring that they enroll in courses that are applicable to their particular academic programs.

## Course Fees

Some courses may carry fees beyond the standard tuition costs to cover additional support or materials. Program-, subject- and course-specific fee information can be found on the Office of the Bursar website (<http://louisville.edu/bursar/tuitionfee>).

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### OBIO 602. Bone and Calcium Physiology 3 Units

**Term Typically Offered:** Not Offered

**Prerequisite(s):** Consent of instructor.

**Description:** Contemporary concepts and literature in bone and calcium physiology. Lectures and student-led discussions.

For class offerings for a specific term, refer to the Schedule of Classes (<http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm>)

### OBIO 611. Craniofacial Osteology 1-3 Units

**Grading Basis:** Pass/Fail

**Term Typically Offered:** Not Offered

**Prerequisite(s):** OPGD 801 and OPGD 805 or equivalents.

**Description:** Explores the hard tissue interrelationships of the craniofacial complex. Includes the mechanical properties, origins and maturation of facial bones. Complements the cephalometric course; designed to link clinical applications to anatomic locations.

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### OBIO 612. Craniomaxillofacial Diagnostic Imaging 2-4 Units

**Term Typically Offered:** Spring Only

**Prerequisite(s):** Admission to the Graduate School for students in Oral Biology, a DMS/DDS degree or its foreign equivalent, or a MD/DO degree or its foreign equivalent.

**Description:** Principles of safety, quality assurance, selection criteria and interpretation for current diagnostic imaging modalities of interest to the healthcare provider treating the craniomaxillofacial complex.

**Note:** Cross-listed with ASNB 678.

**Note:** 2 lecture, 2-4 lab.

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### OBIO 613. The Diagnosis & Treatment of Temporomandibular Disorders 1 Unit

**Grading Basis:** Pass/Fail

**Term Typically Offered:** Fall Only

**Prerequisite(s):** DMD or DSD degree or instructor approval.

**Description:** Will present the basic concepts of Temporomandibular Disorders. Emphasis is on Etiology, Examination, Recognition, Diagnosis and Treatment of Facial Pain/TMJ Disorders and Occlusal Abnormalities.

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### OBIO 614. Advanced Oral Diagnosis and Oral Medicine 1 Unit

**Grading Basis:** Pass/Fail

**Term Typically Offered:** Not Offered

**Prerequisite(s):** Admission to the MS Oral Biology program, a DDS or DMD degree or its foreign equivalent, or consent of the instructor.

**Description:** Will present advanced topics on diagnostic methods and therapy relative to oral-maxillofacial and systematic diseases, and the inter-relationships between oral and systemic disease.

For class offerings for a specific term, refer to the Schedule of Classes (<http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm>)

### OBIO 615. Advanced Clinical Pharmacology 1 Unit

**Grading Basis:** Pass/Fail

**Term Typically Offered:** Spring Only

**Prerequisite(s):** One of the following: Admission to the MS Oral Biology program; a DDS or DMD degree or its foreign equivalent; consent of the instructor.

**Description:** To present advanced topics in clinical pharmacology with specific emphasis on antibiotics, analgesics, local anesthetics, anxiolytic, antifungal and antiviral drugs.

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### OBIO 616. Overview of Medical Genetics in Oro-Facial Disease 1.5 Units

**Grading Basis:** Pass/Fail

**Term Typically Offered:** Not Offered

**Prerequisite(s):** Admission to the MS Oral Biology program, a DDS, DMD or MD degree or its foreign equivalent, or consent of the instructor.

**Description:** The student will study the medical genetic influence on development and growth as well as dysmorphology and disease, of the human body. Risk factors, probabilities and clinical outcomes are emphasized.

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### OBIO 617. Advanced Oral Pathology 1 Unit

**Grading Basis:** Pass/Fail

**Term Typically Offered:** Fall Only

**Prerequisite(s):** Admission to the MS Oral Biology program, a DDS, DMD, or MD degree or its foreign equivalent, or consent of the instructor.

**Description:** Introduction to the clinical and radiographic manifestations of diseases of the oral cavity and para-oral region. Also included will be the clinical differential diagnosis oral lesions and the etiology and histology of common oral lesions. Clinical evaluation and management of oral lesions will be discussed as well.

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**OBIO 622. Multiple-Disciplinary Seminars 1 Unit**

**Grading Basis:** Pass/Fail

**Term Typically Offered:** Fall, Spring

**Prerequisite(s):** Enrollment in the MS in Dentistry, GPR, OMFS programs, or MS in Oral Biology programs.

**Description:** Case-based multi-disciplinary seminar where topics of clinical interest are presented by postgraduate students/residents in the Master of Science in Dentistry program, as well as OMFS and GPR residents. Discussion is facilitated by faculty. The course is continuous for both the Fall and Spring semesters and students must enroll in both semesters to receive credit. The course provides interdisciplinary discussion of diagnosis and treatment of oral pathologies.

For class offerings for a specific term, refer to the Schedule of Classes (<http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm>)

**OBIO 623. Advanced Implantology 1 Unit**

**Grading Basis:** Pass/Fail

**Term Typically Offered:** Not Offered

**Prerequisite(s):** Enrollment in the MS in Dentistry program or MS in Oral Biology program.

**Description:** Seminar review of the fundamental concepts of implantology including both surgical and restorative phases, the biologic basis of implantology, the advantages and disadvantages of different implant systems, and practice sessions placing implants and complete preparation for the clinical use of implants.

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**OBIO 624. Advanced Maxillofacial Imaging Practicum 0.5-1.5 Units**

**Grading Basis:** Pass/Fail

**Term Typically Offered:** Fall Only

**Prerequisite(s):** Must be enrolled in dental advanced education program.

**Description:** The practicum provides individualized in-depth discipline specific instructions and clinical training to postgraduate students in advanced education programs so that they are competent in the practical aspects associated with prescribing, performing, accessing and interpreting CBCT imaging in an enterprise PACS environment. The student will develop skills in the use of software for discipline specific applications and familiarity and experience with 3-D printing in the course of providing care for their patients.

**Note:** Instruction and credit hours vary by specific advanced education program and course section.

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