

# ORAL IMMUNOLOGY AND INFECIOUS DISEASES (OIID)

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>).

## 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/>).

### OIID 501. Biomedical Data Analysis: Experimental Design and Statistics 3 Units

**Term Typically Offered:** Fall Only

**Prerequisite(s):** Acceptance to a graduate program or permission of course director.

**Description:** OIID 501 is designed for graduate and professional students in health sciences who require a working knowledge of the experimental design and statistical methods most often utilized in the biomedical sciences. The focus is upon the initial evaluation of scientific literature, the formulation of research protocols, and the interpretation of data. Special attention is given to those areas of data interpretation most common in the health sciences.

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### OIID 600. Concepts in Oral Immunology 2 Units

**Term Typically Offered:** Spring Only

**Prerequisite(s):** Students should have previously taken a basic immunology course or consent of instructor.

**Description:** To provide an in-depth analysis of how the host's immune system within the oral cavity is involved in mediating host immunity against periodontal pathogens, as well as defining the immunological events underlying the initiation and progression of periodontal diseases.

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### OIID 601. Introduction to Oral Biology Research 2 Units

**Prerequisite(s):** Acceptance to an Oral Biology degree program or consent of course director.

**Description:** An introduction to modern research methodology in oral biology. Designed to acquaint the student with a broad spectrum of experimental techniques and concepts which will help prepare for successful design of a research project. Major emphasis is placed on research design, research methodology, critical evaluation of basic research literature, and scientific writing.

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### OIID 604. Oral Infections 3 Units

**Term Typically Offered:** Spring Only

**Prerequisite(s):** Acceptance to an Oral Biology degree program or consent of course director.

**Description:** This course explores the etiology and pathogenesis of oral infections, and host-microbe interactions.

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### OIID 605. Oral Health Seminars 0.5 Units

**Grading Basis:** Pass/Fail

**Prerequisite(s):** Acceptance to the MSOB program or consent of course director.

**Description:** Biomedical research seminars describing basic and clinical research by internal and external faculty and postdoctoral research associates. Students will learn about the breadth of faculty biomedical research, providing context for their own research. The seminars are at least monthly, and the course is continuous through the fall and spring semesters.

**Note:** A required course for most students in the Master of Science in Oral Biology (MSOB) program.

**Note:** Students must enroll in both Fall and Spring semesters to receive full credit.

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### OIID 606. Oral Biology Communication 2 Units

**Term Typically Offered:** Spring Only

**Prerequisite(s):** OIID 601.

**Description:** Provided to MS and PhD students, and to dental residents. The goal of this course is for students to develop their research plan and to become familiar with presenting and defending research findings in a scientific setting. The students will: prepare a scientific abstract in the style of the Journal of the American Dental Association; give a 15-minute seminar describing their research project; answer questions on their talk; and contribute to discussions and feedback on the research of classmates.

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### OIID 610. Advanced Topics in Oral Biology 1-4 Units

**Prerequisite(s):** OIID 601 or OBIO 601; consent of Graduate Program Director.

**Description:** This course allows graduate credit to be obtained for guided readings or other specialized studies needed to enhance the student's understanding of their thesis research project. This course can be used for a student to read and discuss a series of advanced publications with a faculty guide other than their primary mentor, in order to build expertise in a specialized area relevant to their research project. Guided readings with a Thesis Committee faculty (other than the mentor) can be particularly important for an interdisciplinary project. This course is intended for specialized in depth studies beyond what is appropriate in a classroom setting. The faculty and student must obtain approval from the Graduate Program Director for this course prior to registering. The faculty guide should send an email to the Graduate Director at the beginning of the semester describing the goals and expected effort and number of credits. For class offerings for a specific term, refer to the Schedule of Classes (<http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm>)

**OIID 619. Graduate Research** **1-8 Units**

**Grading Basis:** Pass/Fail

**Prerequisite(s):** Acceptance to a graduate degree program or consent of course director.

**Description:** Allows graduate credit to be obtained for performing biomedical research. The student will perform research under the supervision of a primary mentor who is specifically named in the Thesis Committee Form that is required to be completed by all students during their first semester and signed by student, committee members and the Program Director. Research hours and duties are as defined by the mentor in conjunction with the student.

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**OIID 620. Thesis** **1-8 Units**

**Grading Basis:** Pass/Fail

**Term Typically Offered:** Fall, Spring, Summer

**Prerequisite(s):** Acceptance to an Oral Biology degree program or consent of course director.

**Description:** This course allows graduate credit to be obtained for all aspects of writing the students thesis or writing a research article suitable for publication.

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**OIID 800. Correlated Sciences** **1 Unit**

**Grading Basis:** Pass/Fail

**Prerequisite(s):** Acceptance to the DMD program.

**Description:** OIID 800 is provided in the first semester of the DMD program. The diverse range of didactic lectures in OIID 800 is intended to introduce the concept of the need to maintain a holistic scientific view of the body when providing dental care. The course will introduce anatomical, historical, immunological, biochemical, physiological, microbiological, pharmacological and pathological research concepts that will ultimately, lead to improvements in the examination, evaluation, diagnosis and/or treatment of dental patients. OIID 800 will introduce the wide range of clinical, basic and transnational research that currently takes place in the School of Dentistry and how you can become actively involved.

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**OIID 804. DMD Research** **2-8 Units**

**Grading Basis:** Pass/Fail

**Prerequisite(s):** Acceptance to the DMD program and to a research program.

**Description:** OIID 804 gives credit to DMD students participating in a research program such as the ULSD Summer Research Program. Students should apply for a Summer Research Program during the spring semester, participate in research during the summer, and present at Research Louisville in the Fall semester. Applications are through the ULSD Associate Dean for Research + Enterprise. Students receive 2 credits for each semester doing research.

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