Immunology

Director

- Kevin L. Legge (Microbiology and Immunology/Pathology)

Graduate degree: Ph.D. in immunology

Faculty: https://immuno.grad.uiowa.edu/people/faculty
Website: https://immuno.grad.uiowa.edu/

The Immunology Program provides interdisciplinary training in the concepts and methodologies of basic and applied immunology. Faculty members are involved in a variety of research projects dealing with the immune system at all levels—structural, functional, cellular, biochemical, and molecular. Students take coursework in immunology and related disciplines and are directly involved in laboratory research throughout their study.

Programs

Graduate Program of Study

Major

- Doctor of Philosophy in Immunology

Facilities

Training is conducted in laboratories and teaching facilities of the Carver College of Medicine Stead Family Department of Pediatrics and the Departments of Internal Medicine, Otolaryngology—Head and Neck Surgery, Pathology, Microbiology and Immunology, Pharmacology, and Urology; and the College of Public Health Department of Epidemiology. Faculty laboratories and central research core facilities provide students with access to state-of-the-art research equipment.

Courses

Immunology Courses

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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>IMMU:2040</td>
<td>Summer Undergraduate IDGP Research</td>
<td>0 s.h.</td>
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<tr>
<td>IMMU:6201</td>
<td>Graduate Immunology</td>
<td>3 s.h.</td>
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<tr>
<td>IMMU:6211</td>
<td>Immunology Seminar</td>
<td>1 s.h.</td>
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<tr>
<td>IMMU:6231</td>
<td>Research in Immunology</td>
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IMMU:6241 Writing a Scientific Proposal 2 s.h.

How to write a scientific proposal. Prerequisites: IMMU:6201.
Requirements: enrollment in immunology graduate program.

IMMU:6247 Graduate Immunology and Human Disease 4 s.h.

Important principles and key concepts in immunology with a focus on the involvement of the immune system in disease pathogenesis; overview of innate and adaptive immune systems and their functions at cellular and molecular levels; learning enhanced by case-based, small-group discussion and writing exercises. Same as MICR:6247.

IMMU:7221 Advanced Topics in Immunology 3 s.h.

In-depth analysis of selected areas. Prerequisites: IMMU:6201 or MICR:6201. Same as MICR:7207.