Immunology

Director
• Kevin L. Legge (Microbiology and Immunology/Pathology)

Graduate degree: PhD 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 departments of Internal Medicine, Microbiology and Immunology, Otolaryngology-Head and Neck Surgery, Pathology, Pharmacology, Urology, and the Stead Family Department of Pediatrics; 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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>IMMU:2040</td>
<td>Summer Undergraduate IDGP Research</td>
<td>0 s.h.</td>
</tr>
<tr>
<td>IMMU:6201</td>
<td>Graduate Immunology</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>IMMU:6211</td>
<td>Immunology Seminar</td>
<td>1 s.h.</td>
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</tbody>
</table>

IMMU:6201 Graduate Immunology 3 s.h.
Immune cell ontology, activation, and function of T lymphocytes and B lymphocytes; innate immune effector mechanisms; major histocompatibility complex; antigen presentation; thymocyte positive and negative selection; signaling of T lymphocytes and B lymphocytes; emphasis on experimental methods for analysis of these processes and how they have led to current advanced concepts in immunology. Prerequisites: MICR:3147 or MICR:6247. Requirements: for IMMU:6201—college biology, general chemistry, and introductory immunology courses; for MICR:6201—courses in college biology, genetics, general chemistry, and introductory immunology. Recommendations: for IMMU:6201—courses in biochemistry and genetics; for MICR:6201—biochemistry course. Same as MICR:6201.

IMMU:6211 Immunology Seminar 1 s.h.
Requirements: immunology graduate standing.