**IMMUNOLOGY AND MICROBIOLOGY (PH.D.)**

**Admission Requirements**

Admission to these programs is contingent upon admission to the Graduate School (http://bulletins.wayne.edu/graduate/general-information/admission) and the graduate programs of the School of Medicine (http://bulletins.wayne.edu/graduate/school-medicine/programs), respectively. Additionally, applicants are expected to meet the requirements of the Department: students must have an undergraduate degree and a minimum grade point average of 3.0 to apply. An interview with the Graduate Officer or designated representative is desirable. The Graduate Record Examination aptitude test is required. Foreign students must be proficient in English as determined by satisfactory performance on the standardized TOEFL English proficiency examination.

**Academic Scholarship**

All course work must be completed in accordance with the regulations of the Graduate School (http://bulletins.wayne.edu/graduate/general-information/academic-regulations) and the School of Medicine (http://bulletins.wayne.edu/graduate/school-medicine/programs) governing graduate scholarship and degrees.

Students in the Immunology and Microbiology Department enroll in the School of Medicine’s Interdisciplinary Biomedical Sciences (IBS) curriculum during their first year. The curriculum includes:

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tr>
<td>IBS 7015</td>
<td>Interdisciplinary Cell and Molecular Biology</td>
<td>7</td>
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It also includes selection by the student in conjunction with the Departmental Graduate Officer of courses within the IBS Systems curriculum, including IBS 7090, Fundamentals of Immunology (two credits) and selections from other IBS Systems courses.

- IM 7040 Fundamentals of Research 2
- IM 7030 Molecular Biology of Viruses 2
- IM 7520 Molecular Mechanisms of Bacterial Pathogenesis 2
- IM 7996 Research 1-8

Candidates for the doctoral degree must complete ninety credits beyond the bachelor’s degree, including thirty credits in doctoral dissertation direction. The thirty-credit dissertation requirement is fulfilled by registering for IM 9991, IM 9992, IM 9993 and IM 9994 (Doctoral Dissertation Research and Direction I, II, III, and IV, respectively), in consecutive academic year semesters. For information regarding distribution of credits among major and minor requirements, consult the department.