

IMMUNOLOGY & MICROBIAL PATHOGENESIS (PHD)

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 Program Website (<https://www.jefferson.edu/academics/colleges-schools-institutes/life-sciences/degrees-programs/phd-programs/immunology.html>)

Program Description

The PhD Program in Immunology & Microbial Pathogenesis provides aspiring students with the background, training and experience necessary to launch careers as independent scientific investigators in the fields of immunology, microbiology, biochemistry, cell biology and molecular biology.

- A multidisciplinary approach to the field by providing the student with a strong, basic knowledge of immunology, microbiology, biochemistry, cell biology and molecular biology, with additional exposure to other areas of related interest.

The ultimate goal of this program is to provide aspiring students with the background, training and experience necessary to launch careers as independent scientific investigators.

Curriculum: 5.5 Years, 180 Credits

Course	Title	Credits
First Year		
CG 550		10
IMP 710	Seminar in Micro & Immunology	1
GC 760	PhD Laborator Rotation II	3
IMP 910	IMP Research	V
IMP 505A	Fundamentals of Immunology	2
IMP 600A	BacteriologyMycology&Parasitol	1
IMP 720	Seminar	1
IMP 722	Current Literature in IMP II	1
GC 770	PhD Laboratory Rotation III	3
GC 640	Research Ethics	1
IMP 505B	Immune System in Health&Diseas	2
IMP 600B	Virology	3
IMP 730	Seminar	1
GD 550D		1
IMP 732	Current Literature in IMP III	1
GC 780	PhD Laboratory Rotation IV	3
NS 740	Applied Statistics in Neurosci	2
IMP 920	IMP Research	V
IMP 930	IMP Research	V
IMP 940	Research	V
Credits		36

Course	Title	Credits
Second Year		
IMP 530	Infection & Immunity	3
GC 730	Planning&Writing ResearchGrant	1
IMP 710	Seminar in Micro & Immunology	1
IMP 712	Current Literature in IMP I	1
IMP 910	IMP Research	V
IMP 720	Seminar	1
IMP 722	Current Literature in IMP II	1
General Electives		
IMP 730	Seminar	1
IMP 732	Current Literature in IMP III	1
IMP 920	IMP Research	V
IMP 930	IMP Research	V
IMP 940	Research	V
IMP 530 or IMP 605	Infection & Immunity or AdvCellular/Moleclimmunology	3
IMP 710	Seminar in Micro & Immunology	1
IMP 712	Current Literature in IMP I	1
IMP 910	IMP Research	V
Comprehensive Exam		
IMP 720	Seminar	1
IMP 722	Current Literature in IMP II	1
IMP 730	Seminar	1
IMP 732	Current Literature in IMP III	1
IMP 920	IMP Research	V
IMP 930	IMP Research	V
IMP 940	Research	V
Comprehensive Examination		20
Third Year		
IMP 770		1
IMP 712	Current Literature in IMP I	1
IMP 910	IMP Research	V
IMP 720	Seminar	1
IMP 722	Current Literature in IMP II	1
IMP 730	Seminar	1
IMP 732	Current Literature in IMP III	1
IMP 920	IMP Research	V
IMP 930	IMP Research	V
IMP 940	Research	V
Credits		6
Total Credits		62