Immunology

Year and Campus:	2016
Coordinator:	Dr Karena Waller
Contact:	**Coordinator** **klwaller@unimelb.edu.au (mailto:klwaller@unimelb.edu.au)** **Currently enrolled students**: # General information: **https://ask.unimelb.edu.au (https://ask.unimelb.edu.au/)** # **Contact Stop 1 (http://students.unimelb.edu.au/stop1)** **Future students**: # Further information: **https://futurestudents.unimelb.edu.au (https://futurestudents.unimelb.edu.au/)**
Overview:	This major provides students with a detailed understanding of Immunology, the study of our immune system. The major describes how Immunology is studied and applied to a range of areas in the biomedical sciences. The major opens up careers in infectious diseases, diagnostics, molecular biology, biotechnology, vaccinology, biosafety and regulation as well as providing an avenue towards post-graduate research into infectious agents, their genes, underlying mechanisms of infectious disease and diseases associated with the immune system. It provides a basis for further study into medicine and other paramedical disciplines. Students intending to undertake this major should be aware that it requires successful completion of a practical-based subject in which products and reagents derived from animals are used.
Learning Outcomes:	*Immunology Major Graduates should demonstrate:* # ability to: describe the way the immune system responds to infectious, foreign and noxious agents; describe the immune mechanisms involved in tumour, immunity, transplantation, allergies and autoimmune diseases; to explain the molecular and cellular responses elicited by vaccination; to describe strategies to dampen or modulate immune responses that can be employed to improve human health; and to describe the principles and procedures involved in isolating and characterising immune cells and their products; # expertise in the selection and application of practical and/or theoretical immunological techniques or tools in order to conduct an investigation; # capacity for critical analysis and evaluation of scientific data from a range of sources to form evidence-based conclusions; # skills to effectively communicate scientific ideas and findings in both oral and written format; # safe scientific work practices # expertise in accurately recording experimental data and the use of this record to construct and present oral and written scientific reports; # skills for effective participation in group work activities, both within and outside of the laboratory; # independence and self-directed learning ability and the ability to set their own goals and effectively manage their time and priorities; # a high level of professional integrity; understand the requirements for personal and collective laboratory safety; understand the ethical requirements regarding plagiarism and accurate data reporting and analysis.
Structure & Available Subjects:	Completion of 50 points of study at level 3
Subject Options:	All three of

Subject	Study Period Commencement:	Credit Points:
MIIM30002 Principles of Immunology	Semester 1	12.50
MIIM30003 Medical and Applied Immunology	Semester 2	12.50

	MIIM30015 Techniques in Immunology	Semester 2	12.50

Plus one of

Subject	Study Period Commencement:	Credit Points:
MIIM30011 Medical Microbiology: Bacteriology	Semester 1	12.50
MIIM30014 Medical Microbiology: Virology	Semester 2	12.50
BCMB30001 Protein Structure and Function	Semester 2	12.50
BCMB30002 Functional Genomics and Bioinformatics	Semester 1	12.50
BCMB30003 Molecular Aspects of Cell Biology	Semester 1	12.50
GENE30002 Genes: Organisation and Function	Semester 1	12.50
CEDB30002 Concepts in Cell & Developmental Biology	Semester 1	12.50
PATH30001 Mechanisms of Human Disease	Semester 1	12.50

Notes:	A quota has been applied to a core subject in this major.
Related Course(s):	Bachelor of Biomedicine Bachelor of Science