MIIM20003 Experimental Microbiology

Credit Points:	12.50
Level:	2 (Undergraduate)
Dates & Locations:	2010, Parkville This subject commences in the following study period/s: Semester 1, Parkville - Taught on campus. Semester 2, Parkville - Taught on campus.
Time Commitment:	Contact Hours: 12 lectures (one per week) and 36 hours of practical work (three hours per week) (total contact hours: 48) Total Time Commitment: 120 hours
Prerequisites:	Pre-requisites are:

Subject	Study Period Commencement:	Credit Points:
BIOL10004 Biology of Cells and Organisms	Semester 1	12.50

and

Subject	Study Period Commencement:	Credit Points:
BIOL10005 Genetics & The Evolution of Life	Semester 2	12.50

and (may be taken concurrently)

Subject	Study Period Commencement:	Credit Points:
MIIM20001 Principles of Microbiology & Immunology	Semester 1	12.50

Corequisites: The following subject is a co-requisite:

Subject	Study Period Commencement:	Credit Points:
MIIM20001 Principles of Microbiology & Immunology	Semester 1	12.50

Recommended Background Knowledge: The prerequisite and corequisite subjects should have provided an appropriate background.

Non Allowed Subjects: Non allowed subject:

Subject	Study Period Commencement:	Credit Points:
MIIM20002 Microbes, Infections and Responses	Semester 2	12.50

Core Participation Requirements: It is University policy to take all reasonable steps to minimise the impact of disability upon academic study and reasonable steps will be made to enhance a student's participation in the University's programs. This subject requires all students to actively and safely participate in laboratory activities. Students who feel their disability may impact upon their participation are encouraged to discuss this with the subject coordinator and the Disability Liaison Unit: http://www.services.unimelb.edu.au/disability/

Coordinator: Dr Helen Billman-Jacobe, Dr Karena Waller, Ms Cheryl Power

Contact: **cheryljp@unimelb.edu.au (mailto:cheryljp@unimelb.edu.au)**

Administrator Coordinator:

Corliss Chan

Subject Overview:	This subject is a practical subject in which students undertake a series of laboratory exercises in Microbiology. The subject will illustrate some of the principles relating to structure and function of microorganisms and allow students to become familiar with some of the basic laboratory techniques used in microbiology, as well presenting the laboratory as an interesting, stimulating and safe environment in which to work.
Objectives:	Upon completion of this course students should have: # acquired knowledge of the basic laboratory methods used in microbiology, when to use them and the ability to perform them safely and effectively; # an understanding of how practical studies augment theoretical studies of the structure, function and activities of microorganisms; # an experience of the laboratory as an interesting and stimulating environment in which to work; # an appreciation of real-life applications of microbiological techniques and their relevance to industry and community health and well-being.
Assessment:	Ongoing assessment of practical reports due during the semester (50%);Ongoing assessment of laboratory notebook during the semester (10%);A 2-hour practical examination during the semester (40%). Satisfactory completion of the laboratory work and written reports, as well as a pass in the practical examination are necessary to pass this subject.Attendance is compulsory. Students who miss more than 20% of the practical component of this subject will not be eligible for final assessment
Prescribed Texts:	Department of Microbiology Techniques Manual (University of Melbourne), 1999 Microbiology (L M Prescott, J P Harley and D A Klein), 6th edn, 2005
Breadth Options:	This subject potentially can be taken as a breadth subject component for the following courses: # **Bachelor of Arts (https://handbook.unimelb.edu.au/view/2010/B-ARTS)** # **Bachelor of Commerce (https://handbook.unimelb.edu.au/view/2010/B-COM)** # **Bachelor of Environments (https://handbook.unimelb.edu.au/view/2010/B-ENVS)** # **Bachelor of Music (https://handbook.unimelb.edu.au/view/2010/B-MUS)** You should visit **learn more about breadth subjects (http://breadth.unimelb.edu.au/breadth/info/index.html)** and read the breadth requirements for your degree, and should discuss your choice with your student adviser, before deciding on your subjects.
Fees Information:	Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees
Generic Skills:	Upon completion of this course students should have developed observational, organisational and practical skills in obtaining data and in analysing, reporting, evaluating and interpreting experimental findings.
Notes:	This subject is available to students enrolled in the: NG Microbiology, Infection and Immunology (from 2010) B. Sc only Pre- 2008 Microbiology (from 2010) Pre-2008 Immunology (from 2010) Pre-2008 B Biomed Sc Stream 7, Microbes, Infection and Immunity (from 2010) This subject is available for science credit to students enrolled in the BSc (both pre-2008 and new degrees), BASc or a combined BSc course. This subject is not available to the Bachelor of Biomedicine students.
Related Course(s):	Bachelor of Science Graduate Diploma in Biotechnology