

531-302 Techniques for Investigation of Disease

Credit Points:	12.50
Level:	3 (Undergraduate)
Dates & Locations:	2009, This subject commences in the following study period/s: Semester 1, - Taught on campus.
Time Commitment:	Contact Hours: A maximum of 54 hours of practical work comprising six 6-hour laboratory-based practicals and six 3-hour written data-exercises directly related to the laboratory work Total Time Commitment: 120 hours
Prerequisites:	531-201; biochemistry and molecular biology 521-211, 521-212 and 521-220.
Corequisites:	531-301 Cellular Basis of Disease.
Recommended Background Knowledge:	Anatomy and cell biology 516-201; biochemistry and molecular biology 521-301 and/or 521-302; or microbiology and immunology 526-304 plus 526-324.
Non Allowed Subjects:	Credit cannot be gained for 531-302 and 531-301 prior to 2000.
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.
Coordinator:	Dr John Robert Underwood
Subject Overview:	Students completing this subject will: <ul style="list-style-type: none"> # gain a deeper theoretical and practical understanding of the way in which questions about disease processes are formulated and investigated; # take part in hands-on laboratory experiments using current techniques (see below) appropriate for investigation of a variety of diseases; and # complete written exercises based on interpretation of unseen experimental data. <p>The techniques to be studied are: immunofluorescence and immunocytochemistry, ELISA, immunoblotting and techniques used in molecular biology studies.</p>
Assessment:	Weekly written reports on practical work due throughout the semester (65%); ongoing assessment of laboratory performance throughout the semester (10%); a 1-hour written examination in the examination period (25%). Submission of the practical report is necessary to pass the subject. Hurdle requirement: attendance at all pre-practical talks and all practical sessions is compulsory.
Prescribed Texts:	A laboratory manual and references to current scientific journal articles will be available at the beginning of the semester.
Recommended Texts:	
Breadth Options:	This subject is not available as a breadth subject.
Fees Information:	Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees
Notes:	Students intending to complete a major in Pathology are required to enrol in both Mechanisms of Human Disease and Techniques for Investigation of Disease. To enrol secondsemester third year level subjects, students must achieve a pass in both of the first semester third year level Pathology subjects.

	This subject will be available to both B.Science and B.Biomedicine students.
Related Course(s):	Bachelor of Biomedical Science Graduate Diploma in Biotechnology
Related Majors/Minors/ Specialisations:	Pathology