BIOM30001 Frontiers in Biomedicine

Credit Points:	12.50
Level:	3 (Undergraduate)
Dates & Locations:	2010, Parkville This subject commences in the following study period/s: Semester 2, Parkville - Taught on campus.
Time Commitment:	Contact Hours: Three x 1 hour lectures per week plus six x 1 hour tutorials per semester plus one x 4 hour practicals per semester Total Time Commitment: 120 hours
Prerequisites:	Prerequisites are: **Subject** / **Study Period Commencement:** / **Credit Points:** BIOM20001 Molecular and Cellular Biomedicine / Semester 1 / 25 and **Subject** / **Study Period Commencement:** / **Credit Points:** BIOM20002 Integrated Human Structure and Function / Semester 2 / 25
Corequisites:	None
Recommended Background Knowledge:	Completion of 2nd year of Bachelor of Biomedicine
Non Allowed Subjects:	None
Core Participation Requirements:	For the purposes of considering request for Reasonable Adjustments under the Disability Standards for Education (Cwth 2005), and Students Experiencing Academic Disadvantage Policy, academic requirements for this subject are articulated in the Subject Description, Subject Objectives, Generic Skills and Assessment Requirements of this entry. The University is dedicated to provide support to those with special requirements. Further details on the disability support scheme can be found at the Disability Liaison Unit website: http://www.services.unimelb.edu.au/disability/
Coordinator:	Prof Alastair Stewart
Contact:	Prof Alastair Stewart: **astew@unimelb.edu.au (mailto:astew@unimelb.edu.au)**
Subject Overview:	In this subject, students are presented with established and developing issues affecting health and disease that require a holistic appreciation of medical biology, including anatomy, biochemistry, physiology, pathology, microbiology, immunology and pharmacology. Students should gain an integrated understanding of selected health issues that will be explored across their breadth of complexity from molecular mechanisms through to population health considerations. Health issues include: obesity and the metabolic syndrome; allergy, genes and the environment; new approaches to treatment and prevention of drug-dependence; evaluating new therapeutics. Students should also gain an appreciation of the research process and its relationship to the evolution of therapeutic approaches including public health initiatives that assist in health promotion and disease control, through prevention and effective treatment.
Objectives:	Upon completion of this course, students should have: # an ability to use an interdisciplinary approach to studying diseases; # an ability to use a holistic view of medical biology to systematically analyse diseases for opportunities for intervention; # the capacity to see how a better understanding of disease biology leads to new public health initiatives, new diagnostic protocols, treatments or prevention of disease through eg. the use of personalised medicines; health promotion; novel applications of established drugs;

	# an appreciation of issues in the conduct of ethical research and an ability to act as an advocate for medical research.
Assessment:	Four (4) tutorial papers each worth 10% (40%);One practical report (10%); 2 hour written examination in the final examination period (50%).
Prescribed Texts:	On-line readings will be provided through the readings on-line site through the LMS.
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
Generic Skills:	Upon completion of this subject, students should have developed the following generic skills: # the ability to interpret scientific literature and interpret data from electronic databases; # the capacity to integrate knowledge across disciplines; # the ability to comprehend a question, evaluate the relevant information and communicate an answer; # an appreciation of the ability to communicate scientific knowledge to an informed lay audience.
Notes:	This subject is only available to students enrolled in the Bachelor of Biomedicine.
Related Course(s):	Bachelor of Biomedicine