

OPTO20002 Human Visual Functions

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. Lectures, tutorials and practical work.						
Time Commitment:	Contact Hours: 24 lectures/tutorials and 18 hours of practical work during the semester Total Time Commitment: Estimated total time commitment of 120 hours						
Prerequisites:	<table border="1"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>OPTO10001 Vision: How The Eye Sees The World</td> <td>Semester 1</td> <td>12.50</td> </tr> </tbody> </table>	Subject	Study Period Commencement:	Credit Points:	OPTO10001 Vision: How The Eye Sees The World	Semester 1	12.50
Subject	Study Period Commencement:	Credit Points:					
OPTO10001 Vision: How The Eye Sees The World	Semester 1	12.50					
Corequisites:	None						
Recommended Background Knowledge:	A first year level mathematics subject is recommended, but not a prerequisite.						
Non Allowed Subjects:	None						
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. Students who feel their disability may impact upon their active and safe participation in a subject are encouraged to discuss this with the relevant subject coordinator and the Disability Liaison Unit.						
Coordinator:	Prof Sagar Vidyasagar						
Contact:	Email: trv@unimelb.edu.au (mailto:trv@unimelb.edu.au)						
Subject Overview:	The topics covered are the light sense, including spectral sensitivity, light and dark adaptation and mechanisms of adaptation; the colour sense, including a detailed account of colour processing that will form the basis for understanding of colour deficiencies; temporal resolution and movement perception; and the form sense including visual acuity and the contrast sensitivity function.						
Objectives:	This subject aims to provide students with a detailed account of the capabilities of the human visual system and an introduction to theories of visual function. Experience is gained in the laboratory classes in measuring visual functions and in using classical visual psychophysical methodology.						
Assessment:	Ongoing assessment of practical work during the semester (20%) and a 30-minute written examination held mid-semester (10%); a 3-hour written examination in the examination period (70%). Satisfactory completion of the ongoing assessment is necessary to pass the subject.						
Prescribed Texts:	T T Norton, D A Corliss & J E Bailey, <i>The Psychophysical Measurement of Visual Function</i> . Elsevier Health Sciences, 2003.						
Recommended Texts:	# P L Kaufman, A Alm, eds, <i>Adler's Physiology of the Eye, Clinical Applications</i> , 10th Ed, Mosby 2003 (or later edition)						
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)						

	<p># Bachelor of Music (https://handbook.unimelb.edu.au/view/2010/B-MUS)</p> <p>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.</p>
Fees Information:	Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees
Notes:	This subject is available for science credit to students enrolled in the BSc (pre-2008 degree), BAsC or a combined BSc course.
Related Course(s):	Bachelor of Optometry