

655-221 Human Visual Functions

Credit Points:	12.50
Level:	2 (Undergraduate)
Dates & Locations:	2009, This subject commences in the following study period/s: Semester 1, - Taught on campus. Lectures, tutorials and practical work.
Time Commitment:	Contact Hours: 24 lectures/tutorials and 21 hours of practical work Total Time Commitment: 120 hours total time commitment.
Prerequisites:	<i>Vision: How The Eye Sees The World.</i> A first year level mathematics subject is recommended, but not a prerequisite.
Corequisites:	None
Recommended Background Knowledge:	None
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
Subject Overview:	This subject gives 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. 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:	.
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:	None
Recommended Texts:	P L Kaufman, A Alm, eds, <i>Adler's Physiology of the Eye, Clinical Applications</i> , 10th edn, 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/2009/D09) # Bachelor of Commerce (https://handbook.unimelb.edu.au/view/2009/F04) # Bachelor of Environments (https://handbook.unimelb.edu.au/view/2009/A04) # Bachelor of Music (https://handbook.unimelb.edu.au/view/2009/M05) 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
Notes:	Students enrolled in the BSc (pre-2008 BSc), BASc or a combined BSc course will receive science credit for the completion of this subject.
Related Course(s):	Bachelor of Optometry