FOOD30010 Functional Foods & Nutrition

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: 36 hours lectures and 12 hours tutorials Tota	al Time Commitment: 12	0 hours
Prerequisites:	N/A		
	Subject	Study Period Commencement:	Credit Points:
	FOOD20003 Food Chemistry, Biology and Nutrition	Semester 1	12.50
Corequisites:	N/A		
Recommended Background Knowledge:	Sciences and other cognate majors.		
Non Allowed Subjects:	Students who have completed Food Structure and Function credit in this subject.	(208-226) will not be eli	gible for
	Subject	Study Period Commencement:	Credit Points:
	208-226 Food Structure and Function	Not offered 2010	
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:	Mr Kenny Ng		
Contact:	Email: said@unimelb.edu.au (mailto:said@unimelb.edu. Phone: 83448620	au)	
Subject Overview:	The basic macrochemicals and biochemical components that products consist of the natural materials assembled in relative the presence of additives, ingredients and processing or har macro structure of food, and the relationships between the be (emulsifiers, flavours and other components in the environm physical chemistry of the components as part of a food mater processing on these structures. This will include the interact flavours within a food matrix, and interactions between wate proteins, protein-lipids, protein-carbohydrates, and carbohyd describe the influence of processing on these interactions and examples from research projects in related areas. Specialised topics will provide students with a greater under and sensory characteristics of foods, particularly where new novel functionality (such as conferring health benefits or new between food and packaging materials.	at form the structure of for onships that can be alter noting. This subject exan pasic structure and the ar- ient of the total matrix), p ix, including the influenc ions between emulsifiers r-proteins, water, lipids, drate-lipids. This subject mong food components of standing of nutritional, a product development in v physical traits) or the ir	bod ed by hines the dditives blus the e of s and protein- will using llergic volves hteraction
Objectives:	On completion of this subject students should be able to:		

	# recognise the importance of interactions of ingredients in food systems;
	# describe the interaction of water with food components;
	# explain the interactions of emulsifiers with other food components;
	# describe the significance of flavour interactions with food matrix and their effects on perception:
	# describe the role of interactions among food components on microstructure, texture and
	# display an understanding of the impact of food processing on the interactions between macro-components of food components, the structure of the macro-components and the
	consequences of these interactions.
	# Understand the impact of food processing and development on the nutritional, allergic and sensory characteristics of foods.
Assessment:	One 2-hour final examination (45%), one 1-hour mid-semester examination (25%) and one assignment of 2000 words (30%) due after the mid semester break.
Prescribed Texts:	G G Anilkumar (ed.), Ingredient Interactions (Effect on Food Quality). Marcel Dekker, Inc., 1995.
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 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
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Fees Information:	You should visit <u>learn more about breadth subjects</u> (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. Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees
Fees Information: Generic Skills:	You should visit <u>learn more about breadth subjects</u> (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. Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees On completion of this subject students should be able to:
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Fees Information: Generic Skills: Related Course(s):	You should visit <u>learn more about breadth subjects</u> (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. Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees On completion of this subject students should be able to: # be able to establish a supporting network of peers, and have developed regular and effective study techniques involving those peers. # be able to established effective problem solving techniques involving food product formulation # be prepared for participation in team work and submission of individual assignments. # be able to communicate formal arguments about the nutritional value of foods. # be able to perform a literature search and present information with appropriate citations Bachelor of Science