FOOD30007 Food Processing & Preservation

Credit Points:	12.5		
Level:	3 (Undergraduate)		
Dates & Locations:	2015, Parkville This subject commences in the following study period/s: Semester 1, Parkville - Taught on campus.		
Time Commitment:	Contact Hours: 36 hours of lectures, 24 hours of practicals / site visits / demonstrations Total Time Commitment: Total Time Commitment: 170 hours		
Prerequisites:	The subjects listed below or their equivalent.		
	Subject Study Period Commencement:	Credit Points:	
	FOOD20006 Food Microbiology and Safety Semester 2	12.50	
	FOOD20003 Food Chemistry, Biology and Nutrition Semester 1	12.50	
Corequisites:	None		
Recommended Background Knowledge:	Science & other cognate studies.		
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 Student Support and Engagement Policy, academic requirements for this subject are articulated in the Subject Overview, Learning Outcomes, Assessment and Generic Skills sections of this entry. tis University policy to take all reasonable steps to minimise the impact of disability upon academic study, and reasonable adjustments will be made to enhance a student's participation in the University's programs. Students who feel their disability may impact on meeting the requirements of this subject are encouraged to discuss this matter with a Faculty Student Adviser and Student Equity and Disability Support: http://services.unimelb.edu.au/disability		
Coordinator:	Dr Anneline Padayachee		
Contact:	anneline.padayachee@unimelb.edu.au (mailto:anneline.padayachee@unimelb.edu.au)		
Subject Overview:	The aim of this subject is to provide students with an understanding of the science and technology associated with the processing of materials of plant and animal origin into food and food products and their preservation by traditional and modern techniques. An integrated presentation embodying chemical, microbiological, nutritional and engineering aspects will be adopted. Practical exercises, demonstrations and site visits will provide experience in commonly applied technologies.		
	The content includes:		
	# Basic unit and factory operations. # Preservation and processing by: moisture control, application of heat, removal of chemical additives, fermentation and emerging technologies. # Food packaging, # Science and technology of production of selected food products from plant and		
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Learning Outcomes:			

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	# Demonstrate an understanding of the principles and application of food processing and preservation technologies. # Describe the technologies used to effect preservation. # Describe the manufacture of a variety of foods and food products, including formulated and specialty foods as well as those within the main commodity groups. # Understand the role of fractionation and manipulation of food components to produce new products or ingredients. # Understand and evaluate the implications of processing and preservation methodologies on the physical, chemical, microbiological and nutritional quality of foods. # Demonstrate an understanding of the basic unit and factory operations used in food processing. # Evaluate processing technologies for their appropriate application.	
Assessment:	Two 2-hour written examinations (one mid-semester and one final), each worth 40%. Written report of 500 words on selected practical activities undertaken during semester (20%); due approximately two weeks after completion of the practical activities.	
Prescribed Texts:	None	
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/2015/B-ARTS) # Bachelor of Environments (https://handbook.unimelb.edu.au/view/2015/B-ENVS) # Bachelor of Music (https://handbook.unimelb.edu.au/view/2015/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 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	
Generic Skills:	On completion of this subject students should have developed the following generic skills: # Skills in observation, critical analysis and report writing. # An ability to derive, interpret and evaluate social, technical and economic information from a wide variety of sources. # A capacity for independent critical thought, rational inquiry and self-directed learning and research. # An ability to communicate effectively in both written and verbal forms.	
Notes:	For the purposes of considering applications for Reasonable Adjustments under the Disability Standards for Education (Cwth 2005) and Students Experiencing Academic Disadvantage Policy, this subject requires all students to actively and safely participate in practical exercises conducted in pilot-scale food processing facilities as well as visits to commercial food processing facilities. Such activities may involve lifting, climbing multiple stairs and movement around equipment and compliance with the various organisations' OH&S requirements. Students who feel disability may impact upon their participation are encouraged to discuss this with the subject coordinator and the Disability Liaison Unit.	
Related Majors/Minors/ Specialisations:	Food Science Science-credited subjects - new generation B-SCI and B-ENG. Selective subjects for B-BMED	

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