Physics

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Coordinator:	Assoc Prof Jeffrey McCallum					
Contact:	msc@physics.unimelb.edu.au (mailto:n.bell@unimelb.edu.au)					
to u	The Graduate Certificate allows students who have completed an undergraduate degree to re-focus or expand their body of knowledge by completing the requirement of one of the undergraduate majors (or equivalent) in the Bachelor of Science not already completed. The Graduate Certificate provides a pathway to the Master of Science Streams.					
Learning Outcomes:	Students who complete the Graduate Certificate should:					
	# Demonstrate an independent approach to knowledge that uses rigorous methods of inquiry and appropriate theories and methodologies that are applied with intellectual honesty and a respect for ethical values; # Apply critical and analytical skills and methods to the identification and resolution of problems; # Act as informed and critically discriminating participants within the community of scholars, as citizens and in the work force; # Communicate effectively; # Commit to continuous learning; # Be proficient in the use of appropriate modern technologies, such as the computer and other information technology systems, for the acquisition, processing and interpretation of data					
Structure & Available Subjects:	Completion of 62.5 points of study # 50 points of study at level 3 # 12.5 points of study at level 9					
S	Subject prerequisites: For stream specific requirements please click here (http://science.unimelb.edu.au/available-stream-requirements%20). Level 3					
s	students must take:					
-	Subject	Study Period Commencement:	Credit Points:			
	PHYC30018 Quantum Physics	Semester 1	12.50			
P	Plus at least one of:	•				
-	Subject	Study Period Commencement:	Credit Points:			
	PHYC30017 Statistical Physics	Semester 2	12.50			
	PHYC30016 Electrodynamics	Semester 1	12.50			
P	Plus at least one of:					
:	Subject	Study Period Commencement:	Credit Points:			
	PHYC30012 Computational Physics	Semester 2	12.50			
	PHYC30014 Laboratory Work A	Semester 1, Semester 2	12.50			
	PHYC30015 Laboratory Work B	Semester 1, Semester 2	12.50			

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	Plus (if required as a fourth subject) one elective selected from:			
	Subject	Study Period Commencement:	Credit Points:	
	PHYC30019 Astrophysics	Semester 1	12.50	
	PHYC30011 Sub-atomic Physics	Semester 2	12.50	
	PHYC30020 Quantum Systems	Semester 2	12.50	
	Level 9 Plus one level 9 subject selected from listed discipline subjects in the Master of Science (Physics) (//view/current/mc-sciphy) program			
Links to further information:	http://graduate.science.unimelb.edu.au/			
Related Course(s):	Graduate Certificate in Science			

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