

New Course Code and Title	BG6005 Physiological Systems	
Details of Course	Summary of course content (<i>please note that this information provided will also be uploaded to the web for viewing at large</i>)	
	Overview of selected physiological system of the human body. Topics will include bones, joints, and muscular systems; nervous tissue and systems; blood, immune, and cardiovascular systems; endocrine system; respiratory system; digestive system; urinary system.	
	Rationale for introducing this course This course will provide graduate students with the basic knowledge of human physiology in the context of biomedical device/instrument design.	
Assessment	Aims and objectives	
	Students are expected to be able to:	
	<ol style="list-style-type: none"> 1. Describe physiological processes 2. Understand the interplay between various organ systems 3. Explain the relationship between the anatomy/physiology knowledge to the design of biomedical devices 	
Assessment	<i>Final Examination:</i>	50%
	<i>Midterm</i>	30%
	<i>Term Paper</i>	20%
	Total:	100 %
To be offered with effect from (state Academic Year and Semester)	AY 2011/2012 S2	
Cross Listing (if applicable)		
Prerequisites (if applicable)		
Preclusions (if applicable)		
Mode of Teaching & Learning (Lectures, regular tests, Q&A, problem-based learning)	Lectures and reading assignments	
Basic Reading List	Tortora, G.J. and B.H. Derrickson, Principles of Anatomy and Physiology. 12th ed. Vol. 1 & 2. 2009: John Wiley & Sons.	
<ul style="list-style-type: none"> • Compulsory Reading • Supplementary Reading 	Research papers	
Maximum Class Size	30	
Hours of Contact/Academic Units	39 hours / 3 AU	
Workload Per Week (The workload for a 3-AU course must add up to 39 hours of contact hours)	Lecture hours per week	3
	Tutorial hours per week	0
	Laboratory hours per week	0
	No. of hours per week for projects, fieldwork, assignments, reading, etc.	6
	Total hours per week	9