

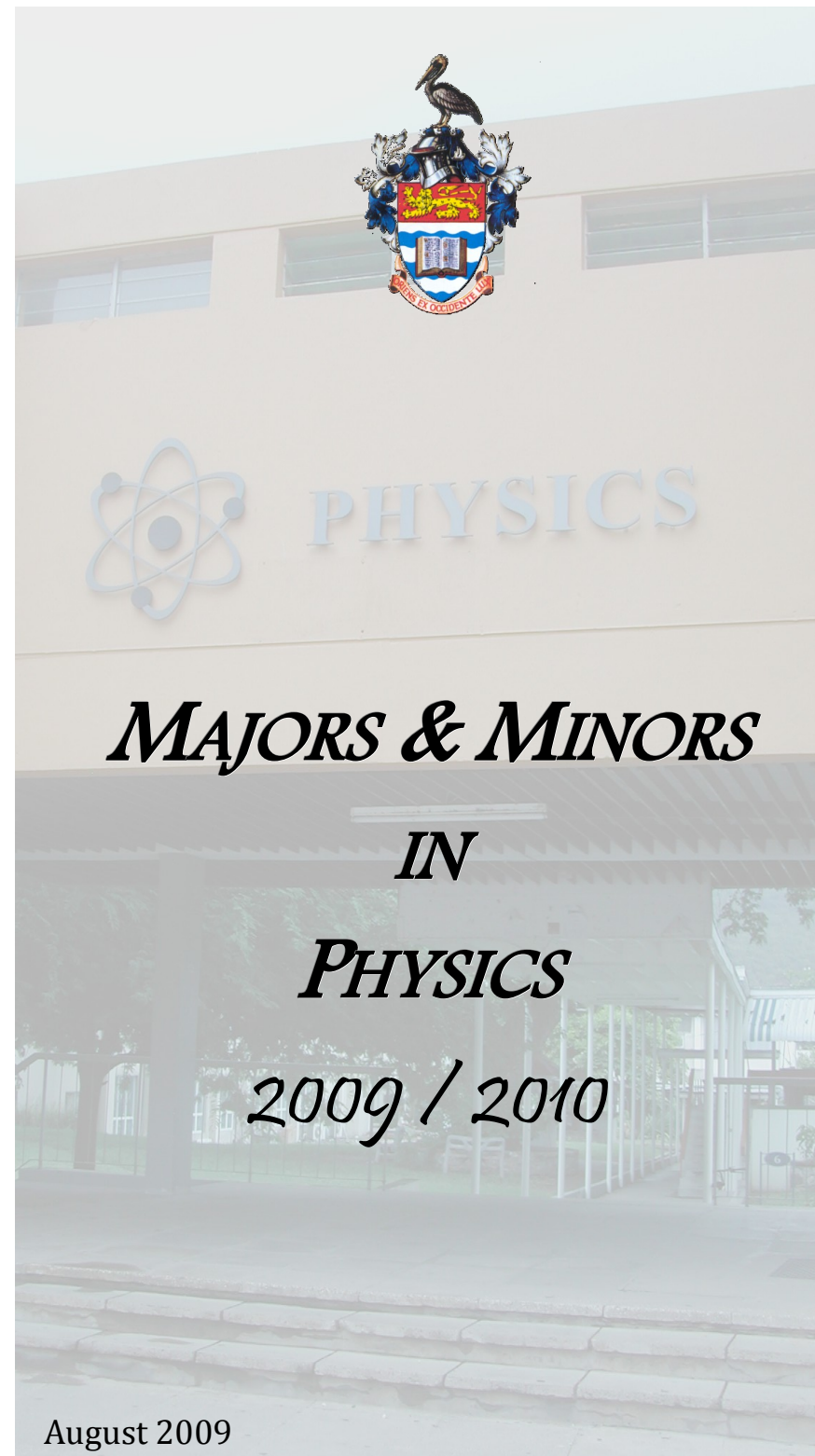
Requirements for Major or Minor *

	Major <i>requires 32 Part II credits as outlined below</i>		Minor <i>requires 16 Part II credits as outlined below</i>	
	Core	Electives	Core	Electives
General Physics	PHYS2350, PHYS2385, PHYS2395, PHYS3350, PHYS3385	<i>and any 3 of the following</i> PHYS2560, PHYS2670, PHYS3395, PHYS3399, PHYS3660, PHYS3670	PHYS2350, PHYS2385	<i>and any 2 of the following</i> PHYS3350, PHYS3385, PHYS3395
Environmental Physics	PHYS2385, PHYS2670, PHYS3660, PHYS3670, PHYS3680	<i>and any 3 of the following</i> ELET2420, ELET2460, ELET3460, ELET 3470, **GGEO3203, PHYS2395, PHYS3385, PHYS3395, PHYS3399	PHYS2670, PHYS3660	<i>and any 2 of the following</i> PHYS2385, PHYS2395, PHYS3670, PHYS3680
Alternative Energy	***ELET3610, PHYS2385, PHYS2670, PHYS3660, PHYS3670, PHYS3680	<i>and any 2 of the following</i> ELET2420, ELET2470, ELET3412, , PHYS2395, PHYS3385, PHYS3399 OR ELET3490	PHYS2670, PHYS3660, PHYS3670, PHYS3680	
Medical Physics	PHYS2290, PHYS2560, PHYS3390, PHYS3397, PHYS3399	<i>and any 3 of the following</i> ELET2420, ELET2430, ELET 2460, ELET3412, PHYS2385, PHYS2395	PHYS2290, PHYS3397	<i>and any 2 of the following</i> ELET2460, ELET3412, PHYS2560, PHYS3399
Materials Science	PHYS2350, PHYS2385, PHYS2560, PHYS3399, PHYS3560, PHYS3570	<i>and any 2 of the following of which at least 1 must be from Level III</i> ELET2420, PHYS2290, PHYS2395, PHYS3350, PHYS3385	PHYS2350, PHYS2560, PHYS3560, PHYS3570	
Electronics	ELET3490	<i>and any 7 ELET courses (excepting ELET3610), of which at least 3 must be from Level III</i>	Any 4 Level II ELET courses	

***Students intending to major in Physics are strongly recommended to register for M10C**

**GGEO3203 - Climate Change in the Tropics *may require HOD Permission*

***note that ELET2420 is a pre-requisite for ELET3610



August 2009

PHYSICS COURSES

The Department of Physics warmly welcomes all new and returning students to the 2009/2010 Academic Year. Our curriculum has been designed to suit the modern world, with new and updated courses, majors, minors, and even club activities.

Please consult our lecturers if you have any difficulties in choosing any of the Majors or

LECTURERS

Dr. P. Aiken	Dr. L. Myers
Dr. D. Amarakoon	Mr. R. Paharsingh
Mr. C. Andrade	Dr. M. Ponnambalam
Prof. A. Chen	
Mr. L. Clarke	Dr. J. Skobla
Mr. S. Daniel	Dr. P. Stephens
Mr. V. Douse	Dr. T. Stephenson
Mr. T. Hall	Dr. M. Taylor
Dr. C. McNamarah	Dr. M. Voutchkov
Dr. J. McTavish	<i>New lecturers</i>

Course Code	Course	Sem	Credits	Prerequisites
Preliminary				
PHYS0410	(P04A) Preliminary Physics A	1	6P	CSEC Physics or GCE O-Level Physics
PHYS0420	(P04B) Preliminary Physics B	2	6P	
Level I				
PHYS1410	(P14A) Introductory Physics A	1	6	CAPE Physics (Unit I and II) / GCE A-Level Physics / PHYS0410 & PHYS0420 / CSEC Physics or GCE O-Level Physics & GCE A-Level Mathematics or CAPE Mathematics (Unit 1 and II) or MATH0100 and MATH0110
PHYS1420	(P14B) Introductory Physics B	2	6	
ELET1400	Introduction to Electronics	2	3	MATH0110
ELET1405	Practices in Basic Electronics	2	3	Co-requisite: ELET1400
Level II				
ELET2410	(P24J) Analog Electronics	2	4	PHYS1410 & PHYS1420, ELET1400 & ELET1405, and MATH0100 & MATH0110 or Equivalent
ELET2420	(P24L) Solid State Electronic Devices	2	4	PHYS1410 & PHYS1420, ELET1400 & ELET1405, and MATH0100 & MATH0110 or Equivalent
ELET2430	(P24K) Digital Electronics	1	4	PHYS1410 & PHYS1420 or COMP1125 & COMP1160, ELET1400 & ELET1405, and MATH0100 & MATH0110 or Equivalent
ELET2460	(P24F) Signals & Systems	2	4	PHYS1410 & PHYS1420, ELET1400 & ELET1405, and MATH0100 & MATH0110 or Equivalent
ELET2470	(P24G) Electric Circuit Analysis	1	4	PHYS1410 & PHYS1420, ELET1400 & ELET1405, and MATH0100 & MATH0110 or Equivalent
ELET2480	(P24H) Communication Systems	1	4	PHYS1410 & PHYS1420, ELET1400 & ELET1405, and MATH0100 & MATH0110 or Equivalent
PHYS2290	(P29A) Intro. to Medical Physics & Bioengineering	1	4	PHYS1410 & PHYS1420, and MATH0100 & MATH0110 or Equivalent
PHYS2350	(P23E) Modern Physics I	1	4	PHYS1410 & PHYS1420, and MATH0100 & MATH0110 or Equivalent
PHYS2385	(P23I) Electricity, Magnetism and Optics	2	4	PHYS1410 & PHYS1420, and MATH0100 & MATH0110 or Equivalent
PHYS2395	(P23J) Computer Applications in Physics	2	4	PHYS1410 & PHYS1420, and MATH0100 & MATH0110 or Equivalent
PHYS2560	(P25F) Materials Science I	1	4	PHYS1410 & PHYS1420, and MATH0100 & MATH0110 or Equivalent
PHYS2670	(P26A) Fluid Dynamics	1	4	PHYS1410 & PHYS1420, and MATH0100 & MATH0110 or Equivalent
Level III				
ELET3150	(P34H) Digital Communications	2	4	ELET2460 and ELET2480
ELET3410	(P34J) Microcontroller Applications	2	4	ELET2430 or COMP2120 or CS21Q
ELET3412	(P34L) Instrumentation	1	4	ELET2410 or ELET2460
ELET3420	(P34K) Microprocessors	1	4	ELET2430 or COMP2120 or CS21Q
ELET3460	(P34F) Digital Signal Processing	1	4	ELET2460
ELET3470	(P34G) EM Transmission & Propagation	2	4	ELET2420 or ELET2480
ELET3490	(P34P) Electronics Project	1 or 2	4	ELET2410 or ELET2430
ELET3610	(P36E) Integrating Alternative Energy	2	4	ELET2420; Co-requisites: PHYS3670 and PHYS3680
PHYS3350	(P33E) Modern Physics II	2	4	PHYS2350
PHYS3385	(P33K) Electromagnetism	2	4	ELET2480 or PHYS2385
PHYS3395	(P33L) Astronomy & Cosmology	1	4	PHYS1410 & PHYS1420, and MATH0100 & MATH0110 or Equivalent
PHYS3390	(P39A) Advanced Medical Physics and Bioengineering	2	4	PHYS2290
PHYS3397	Medical Radiation Physics and Imaging	2	4	PHYS2290
PHYS3399	(P33M) Research Project (Non Electronics)	1 or 2	4	HOD Permission
PHYS3560	(P35F) Materials Science II	2	4	PHYS2560
PHYS3570	(P35G) Materials Science III	2	4	PHYS2560
PHYS3660	(P36B) Atmosphere and Climate	2	4	PHYS1410 & PHYS1420, and MATH0100 & MATH0110 or Equivalent, and Co-requisite: PHYS2670 (recommended)
PHYS3670	(P36C) Solar Power	1	4	PHYS3660
PHYS3680	(P36D) Wind & Hydro Power	1	4	PHYS2670 and PHYS3660

The Department of Physics

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