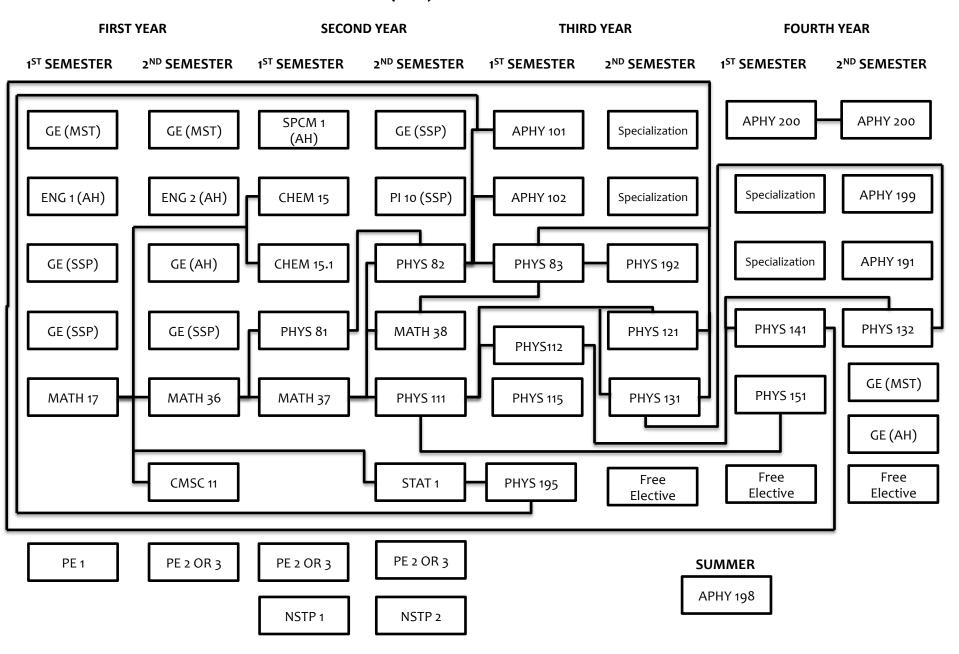
BACHELOR OF SCIENCE IN APPLIED PHYSICS (2011)



SPECIALIZATION COURSES

Computational Physics

Course No. and Title	Prerequisite/s	Semester/s Offered
AMAT 110. Mathematical Modeling (3)	MATH 37 and STAT 1	Second
AMAT 150. Computer Programming (3)	COI	First, Second, Summer
APHY 140. Modeling and Simulation in Environmental Physics (3)	PHYS 115	First, Second
PHYS 116. Computational Physics II (3)	PHYS 115 or COI	First

Experimental Physics

Course No. and Title	Prerequisite/s	Semester/s Offered
APHY 150. Introduction to Materials Development (3)	PHYS 83	Second
APHY 160. Microscopy and Spectroscopy for Materials Characterization (3)	PHYS 83 and APHY 101	Second
PHYS 170. Solid State Physics (3)	PHYS 141	Second
PHYS 192. Experimental Physics II (3)	PHYS 83	First

Instrumentation Physics

Course No. and Title	Prerequisite/s	Semester/s Offered
APHY 103. Electronic Circuits (3)	APHY 102	Second
APHY 104. Digital Computer Electronics (3)	APHY 102 or COI	Second
APHY 105. Microcomputer-based Instrumentation (3)	APHY 101 and APHY 104	First
APHY 132. Embedded Systems Programming for Instrumentation (3)	APHY 105	Second