



Bachelor of Science

APPLIED PHYSICS: Technology Emphasis

Advisement Form 2010-2011

Name _____ ID _____

Physics Curriculum	Un.	Instit.	Course	Units	Grade	Term	Prerequisites, GE & Comments
Lower Division Requirements (31 – 32 Units)							
MATH 150 Calculus I	4						Prereq: Passing score on Calculus Placement Exam or MATH 105; GE: B3
MATH 151 Calculus II	4						Prereq: MATH 150
MATH 230 Logic and Mathematical Reasoning	3						GE: A3, B3
MATH 240 Linear Algebra	3						Prereq: MATH 151
MATH 250 Calculus III	3						Prereq: MATH 151 with “C” or better
PHYS 106 Applied Physics and Modern Society	3						GE: B1
PHYS 200 General Physics I	4						Prereq: MATH 150; GE: B1
PHYS 201 General Physics II	4						Prereq: PHYS 200; GE: B1
COMP 105 Computer Programming Introduction (or)	3						GE: B4
COMP 150 Object-Oriented Programming	4						Prereq: Programming experience; GE: B4
Upper Division Requirements							
Major Core Courses (37 units)							
MATH 350 Differential Equations and Dynamical Systems	3						Prereq: MATH 250 (may be taken concurrently)
PHYS 301 Classical Physics	3						Prereq: PHYS 201 & MATH 350
PHYS 304 Electromagnetism	4						Prereq: PHYS 101 or 201 & MATH 250
PHYS 305 Thermal and Statistical Physics	3						Prereq: PHYS 201 & MATH 350
PHYS 306 Modern Physics	3						Prereq: PHYS 101 or 201 & MATH 151
PHYS 310 Electronics	4						Prereq: PHYS 101 or 201
PHYS/ENGL 338 Science and Conscience	3						GE: B1, C2, UDIGE
PHYS/COMP/MATH 345 Digital Image Processing	3						Prereq: Consent of instructor; GE: B1, B4, UDIGE
PHYS/BIOL/HLTH 434 Introduction to Biomedical Imaging	4						Prereq: BIOL 210 or PHYS 200; GE: B1, E, UDIGE
PHYS 448 Team Based Research	3						Prereq: Upper division standing; GE: B1, UDIGE
PHYS 499 Senior Colloquium	1						Prereq: Senior standing; Repeatable.
Select 3 units (any combination) from the following:							
PHYS 492 Internship	3						Prereq: Upper division standing & consent of instructor; Repeatable.
PHYS 494 Independent Research	1-3						Prereq: Senior standing & consent of instructor; Repeatable.
PHYS 497 Directed Studies	1-3						Prereq: Senior standing & program approval; Repeatable.

