

**A minimum of 125 credits is needed for graduation (or 127 if MA 011 is taken).
This major requires 96 credits. Some major courses may also fulfill Core Requirements.**

Requirements for B.S. Degree
Major in COMPUTER ENGINEERING
Academic Year 2009 – 2010

Name: _____

Advisor: _____

MAJOR COURSES Credits Grade Term

PHYSICS & ENGINEERING DEPARTMENT

*PHY	200	College Physics I	4.00	_____	_____
PHY	201	College Physics II	4.00	_____	_____
PHY	202	College Physics III	4.00	_____	_____
EGR	100	Introduction to Engineering I	2.00	_____	_____
EGR	110	Introduction to Engineering II	2.00	_____	_____
EGR	210	Circuit Analysis	4.00	_____	_____
EGR	220	Electronics	4.00	_____	_____
EGR	221	Algorithms and Data Structures	4.00	_____	_____
EGR	230	Microcomputer Architecture	4.00	_____	_____
EGR	302	Electromagnetism	3.00	_____	_____
EGR	310	Signals and Systems	3.00	_____	_____
EGR	332	Comp Organization and Architecture	4.00	_____	_____
EGR	333	Digital Circuits & Computer Interfacing	4.00	_____	_____
EGR	400	Engineering Portfolio	0.00	_____	_____
EGR	410	Control Systems	3.00	_____	_____
EGR	422	Operating Systems & Sys Programming	4.00	_____	_____
EGR	433	Advanced Computer Engineering	4.00	_____	_____
EGR	494	Senior Project in Computer Engineering	4.00	_____	_____

OTHER REQUIRED COURSES

MA	121	Calculus I	4.00	_____	_____
MA	122	Calculus II	4.00	_____	_____
MA	201	Linear Algebra	3.00	_____	_____
MA	222	Calculus III	4.00	_____	_____
MA	321	Differential Equations	4.00	_____	_____
CS	121	Computer Science I	4.00	_____	_____
CS	122	Computer Science II	4.00	_____	_____
CH	105	Fundamentals of Chemistry: Intro to Molecular Science	4.00	_____	_____
+PH	255_	Ethics (A, B or D)	4.00	_____	_____

* Computer Engineering majors may substitute Physics 200 for one of their Natural and Physical Science Core courses.

+ Students who successfully complete the requirements of this major will have their Humanities Core requirement waived.

** Computer Engineering majors may also enroll in 19 credits for no more than three semesters at Elizabethtown without paying a credit overload fee.