

**A minimum of 125 credits is needed for graduation (or 127 if MA 011 is taken).
This major requires 92 credits. Some major courses may also fulfill Core Requirements.**

Requirements for B.S. Degree
Major in ENGINEERING – Emphasis in Mechanical, Electrical or Applied Physics
Academic Year 2009 – 2010

Name: _____

Advisor: _____

			Credits	Grade	Term
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	262	Statics	3.00	_____	_____
EGR	263	Dynamics	3.00	_____	_____
EGR	275	Geophysics	3.00	_____	_____
EGR	291	Sophomore Project	1.00	_____	_____
EGR	302	Electromagnetism	3.00	_____	_____
EGR	310	Signals & Systems	3.00	_____	_____
EGR	391	Engineering Design and Junior Project	2.00	_____	_____
EGR	395	Fall Seminar	1.00	_____	_____
EGR	396	Spring Seminar	1.00	_____	_____
EGR	400	Engineering Portfolio	0.00	_____	_____
EGR	410	Control Systems	3.00	_____	_____
EGR	410L	Control Systems Lab	1.00	_____	_____
EGR	491	Senior Project in Engineering I	2.00	_____	_____
EGR	492	Senior Project in Engineering II	2.00	_____	_____
CH	105	Fundamentals of Chemistry	4.00	_____	_____
CS	121	Computer Science I	4.00	_____	_____
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	_____	_____
PH	255	Ethics (A, B or D)	4.00	_____	_____

CHOOSE ONE OF THE FOLLOWING ENGINEERING EMPHASIS'S

APPLIED PHYSICS

EGR	351	Physics of Semiconductor Devices	3.00	_____	_____
EGR	361	App Quant Mech & Adv Top in AP	4.00	_____	_____
EGR	463	Analytical Mechanics and Vibrations	3.00	_____	_____
PHY	353	Advanced Physics Lab	3.00	_____	_____

ELECTRICAL

EGR	220	Electronics	4.00	_____	_____
EGR	315	Instrumentation and Measurement	3.00	_____	_____
EGR	351	Physics of Semiconductor Devices	3.00	_____	_____
EGR	352	Fiber Optics Communication Systems	3.00	_____	_____

MECHANICAL

EGR	264	Strength of Materials	4.00	_____	_____
EGR	321	Thermodynamics	3.00	_____	_____
EGR	365	Fluid Mechanics	3.00	_____	_____
EGR	463	Analytical Mechanics and Vibrations	3.00	_____	_____

STRAIGHT (No defined Concentration)

ANY 4 Electives from (App Physics; ME or EE Lists)

Engineering majors may substitute Physics 200 for one of their Natural and Physical Science Core courses. Students who successfully complete the requirements for the Engineering major will have their Humanities core requirement waived.