

ENGINEERING PHYSICS
(Electrical Engineering Concentration)

Freshman Fall Semester			Freshman Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
PHYS 201	General Physics I	4	PHYS 202	General Physics II	4
MTSC 251	Calculus I	4	MTSC 252	Calculus II	4
PHYS 200	Ana. and Quant. Analysis	3	ENGL 102	English Composition II	3
ENGL 101	English Composition I	3	PHYS 191	University Seminar II	1
PHYS-191	University Seminar I	1	PHYS 220	Scientific Programming	3
			MVSC-100	Lifetime Fit. and Wellness	2
	Total Credits	15		Total Credits	17
Sophomore Fall Semester			Sophomore Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
PHYS 313	Mechanics I: Statics	3	PHYS 314	Mechanics II: Dynamics	3
CHEM 101	Gen. & Elem. Chemistry I	4	ENGR 205	Electrical Circuit Analysis	4
ENGR 210	Digital Logic Design	4	MTSC 351	Differential Equation	3
MTSC 313	Linear Algebra	3	MTSC-253	Calculus III	4
ENGL-xxx	World Literature Elective	3	ENGL 200	Speech	3
	Total Credits	17		Total Credits	17
Junior Fall Semester			Junior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
PHYS 341	Electricity and Magnetism I	3	PHYS 342	Electricity & Magnetism II	3
ENGR 340	Solid State Electronics	3	ENGR 309	Electronic Circuit Analysis	4
ENGR 302	Signals and Systems	4	xxxx xxx	Technical Elective I	3
PHYS 361	Modern Physics	4	xxxx-xxx	Social Science Elective	3
	Total Credits	14		Total Credits	13
Senior Fall Semester			Senior Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
PHYS 305	Thermal Physics	3	ENGR 342	Material Science for Engr.	4
PHYS 451	Introduction to Research*	3	PHYS 418	Senior Research Project **	3
xxxx xxx	Technical Elective II	3	xxxx xxx	Technical Elective III	3
GLOB 395	Global Societies	3	xxxx xxx	World History Elective	3
xxxx xxx	Arts and Humanities Elective	3	xxxx xxx	Arts and Humanities Elective	3
	Total Credits	15		Total Credits	16

Total Credits:	124
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** Senior Capstone

* Writing Intensive Course(s)

Students will complete a course that addresses the African-American experience. This course may also satisfy the arts & humanities elective, the social science elective or can be taken to fulfill a free elective. Please see your advisor.