

Electrical Engineering

Bachelor of Science in Electrical Engineering

DEGREE PLAN

Common Core		36 Hours	Engineering		81 Hours
CORE CAPSTONE		0	DEGREE CORE		54
SUBJ 9999	Course Title	0	BSAD 2013	Technical Systems, Communication, and Project Management	3
BIBLICAL LITERACY		6	CIS 2062	Engineering Graphics & Programming	2
BIBL 1013	Introduction to Christian Scripture	3	CIS 3203	Logic Design	3
BIBL 1023	Christian Theology and Ethics	3	ENGR 1103	Engineering Innovation and Design Problem Solving	3
COMPOSITION AND LITERATURE		6	ENGR 2101	Entrepreneurial Mindset	1
ENGL 1153	English Composition: Exposition and Argument	3	ENGR 2313	Electrical Circuits	3
ENGL 1163	English: Composition and Classical Literature	3	ENGR 2403	Statics	3
SCIENTIFIC LITERACY AND MATHEMATICS		8	ENGR 2413	Dynamics	3
MATH 2013	Analytic Geometry/Calculus I	3	ENGR 2603	Aerodynamics	3
PHYS 2515	University Physics I	5	ENGR 3303	Control Systems	3
WELLNESS AND LIFELONG FITNESS		1	ENGR 3443	Thermodynamics	3
PHED 1001	The Wellness Lifestyle	1	ENGR 4103	Engineering Decision, Risk Analysis, and Ethics	3
HISTORY AND LITERATURE		12	ENGR 4952	Engineering Capstone I	2
ENGL 2013	European Civilization: Literature	3	ENGR 4962	Engineering Capstone II	2
and HIST 2013	European Civilization: History	3	MATH 2023	Analytic Geometry and Calculus II	3
ENGL 2023	Modern West: Literature	3	MATH 2033	Analytic Geometry and Calculus III	3
and HIST 2023	Modern West: History	3	MATH 2043	Analytic Geometry and Calculus IV	3
PHILOSOPHY AND FINE ARTS — SELECT ONE COURSE		3	MATH 3243	Differential Equations	3
FNAR 2063	Arts and Western Culture	3	MATH 3503	Computational Statistics	3
FNAR 2163	Arts and Ideas	3	SELECT ONE COURSE		
PHIL 1043	Introduction to Philosophy	3	ENGR 3202	Lean Six Sigma Methods	2
Supportive Core		9 Hours	ENGR 3902	Coop Work Experience	2
CHEM 1214	Engineering Chemistry	4	SPECIALIZED COURSES		27
PHYS 2525	University Physics II	5	ENGR 3313	Advanced Control Systems	3
			ENGR 3323	Microprocessors	3
			ENGR 3333	Electrical/Electronic Design/Analysis Tools	3
			ENGR 3353	Electrical Power Systems	3
			ENGR 3363	Digital Signal Processing	3
			ENGR 3373	Data Communication & Networking	3
			ENGR 4303	Electromagnetics	3
			ENGR 4323	Embedded Systems	3
			MATH 3513	Advanced Mathematical Engineering	3
			Total Hours		
			Common Core		36
			Supportive Core		9
			Major		81
			Total hours required for graduation		126

No D's will be accepted in the area of concentration and the supportive courses or in courses comprising majors and minors.