

ELECTRICAL ENGINEERING

(67 units engineering; 128 units total)

FIRST SEMESTER		<i>Units</i>	SECOND SEMESTER		<i>Units</i>
Math 75	Mathematical Analysis I	4	Math 76	Mathematical Analysis II	4
Chem 1A	General Chem & Qualitative Analysis ..	5	Phys 4A	Mechanics and Wave Motion	4
E E 1	Intro to Electrical Engineering	1	Chem 8	Elementary Organic Chemistry	3
Engr 70	FORTRAN IV Programming	2	Engr 27	Graphics for Electrical Engineering	3
Engr 1	Composition	3	Govt	See ¹	3
		15			17
THIRD SEMESTER			FOURTH SEMESTER		
Math 77	Mathematical Analysis III	4	Math 81	Applied Analysis	4
Phys 4B	Electricity, Magnetism, Heat	4	Phys 4C	Light and Modern Physics	4
E E 85	Minicomputers as System Components..	2	Engr 31	Engineering Materials	2
Engr 20	Engineering Mechanics: Statics	3	Engr 110,L	Principles of Electrical Circuits ⁴	4
Hist	See ¹	3	Humanities	See ³	3
		16			17
FIFTH SEMESTER			SIXTH SEMESTER		
Engr 112	Engineering Mechanics: Dynamics	3	E E 121, L	Electromech Sys & Energy Conversion ..	4
E E 114	Physical Electronics	3	E E 124, L	Electrical Circuit Analysis	4
E E 126	Electromagnetic Theory & Appl I	3	E E 133	Digital Sys & Computer Organization ..	2
E E 128, L	Electronic Devices and Circuits	4	E E 140, L	Pulse and Digital Circuits Design	4
Gen Elect	See ⁴	3	Soc Sci	See ⁴	3
		16			17
SEVENTH SEMESTER			EIGHTH SEMESTER		
E E 136, L	Electromagnetic Theory & Appl II	4	E E 155	Control Systems	3
Engr 116	Thermodynamics-Fluid Mech A	3	E E 180	Senior Project	1
Engr 160	Engineering Economy	2	Engr 136	Thermodynamics-Fluid Mechanics B	3
App Elect	See ⁵	3	Engr 182	Engineering Writing	1
GE Elect	Select from any area	1	App Elect	See ⁵	3
Soc Sci	See ³	3	Humanities	See ³	3
		16			14

¹ See Special Course Requirements under Degrees and Credentials.² Social Sciences: Select from Anth 2, 3, 4; As Am 15; B1 S 38, 135; Crim 1, 132; Econ 1A, 1B, 101; Geog 3, 4; Hist 4, 5; La R 3, 5; NAS 103; PI Si 1, 4, 5, 6; Psych 134; Soc 1, 2; W S 10.³ Humanities: Select from Art 1; Art H 10, 20; B1 S 25; Drama 1, 62; Engr 30, 76; Hist 1, 2; La R 7, 9; Phil 1; RTV 127, 128; W S 145, 168.⁴ General Electives: May be approved electives.⁵ Approved Electives: Select from the following courses with at least 4 units from the italicized course numbers:

(a) Electronics and communications: 134, 161, 166, 166L, 169, 171, 176.

(b) Computer sciences and digital systems: 106, 107, 175, 175L, Engr 173.

(c) Power systems and energy conversion: 151, 151L.

INDUSTRIAL ENGINEERING

(65 units engineering; 132 units total)

FIRST SEMESTER		<i>Units</i>	SECOND SEMESTER		<i>Units</i>
Engr 26	Engineering Graphics	4	Engr 70	FORTRAN IV Programming	2
Math 75	Mathematical Analysis I	4	M E 11, L	Manufacturing Processes	3
Chem 1A	General Chem & Qualitative Analysis ..	5	Math 76	Mathematical Analysis II	4
Hist 11/12	American History	3	Chem 8	Elementary Organic Chemistry	3
		16	Phys 4A	Mechanics and Wave Motion	4
THIRD SEMESTER			FOURTH SEMESTER		
Engr 20	Engineering Mechanics: Statics	3	PI Si 2	American Govt and Institutions	3
Engr 31	Engineering Materials	2	Econ 1B	Principles of Economics	3
Math 77	Mathematical Analysis III	4	Math 81	Applied Analysis	4
Phys 4B	Electricity, Magnetism, Heat	4	Phys 4C	Light and Modern Physics	4
Econ 1A	Principles of Economics	3	Engr 1	Composition	3
		16			17