

## ENGINEERING

### ELECTRICAL ENGINEERING

(68 units engineering; 129 units total)

FIRST SEMESTER		Units	SECOND SEMESTER		Units
Math 75	Mathematical Analysis I .....	4	Math 76	Mathematical Analysis II.....	4
*Chem 1A	General Chem & Qualitative Analysis.....	5	Phys 5A	Principles of Physics I.....	5
E E 1	Intro to Electrical Engineering .....	1	*Chem 8	Elementary Organic Chemistry .....	3
Engr 70	FORTAN IV Programming .....	2	Engr 26	Engineering Graphics .....	3
Engl 1	Composition .....	3			15
		15			
THIRD SEMESTER			FOURTH SEMESTER		
Math 77	Mathematical Analysis III .....	4	Math 81	Applied Analysis.....	4
Phys 5B	Principles of Physics II .....	5	Engr 31	Engineering Materials.....	3
E E 85	Logic Design and Microprocessors .....	3	Engr 90, L	Principles of Electrical Circuits.....	4
Engr 20	Engineering Mechanics: Statics .....	3	Engr 112	Engineering Mechanics: Dynamics .....	3
Humanities	See <sup>3</sup> .....	3	Government <sup>1</sup>	.....	3
		18			17
FIFTH SEMESTER			SIXTH SEMESTER		
Mathematics Elective <sup>5</sup>	.....	3	E E 121	Electromech Sys & Energy Conversion .....	3
E E 126	Electromagnetic Theory & Appl I .....	3	E E 124	Electrical Circuit Analysis .....	3
E E 128, L	Electronics I .....	4	E E 136, L	Electromagnetic Theory & Appl II.....	4
Engr 136	Thermodynamics .....	3	E E 138, L	Electronics II .....	4
Humanities <sup>3</sup>	.....	3	Hist	See <sup>1</sup> .....	3
		16			17
SEVENTH SEMESTER			EIGHTH SEMESTER		
EE 114	Physical Electronics .....	3	E E 155	Control Systems .....	3
E E 121L	Electromech Sys & Energy Conv Lab .....	1	E E 180	Senior Project.....	1
Engr 160	Engineering Economy .....	2	Engr 116	Fluid Mechanics.....	3
Approved Electives <sup>6</sup>	.....	4	Engr 182W	Engineering Writing .....	2
General Elective <sup>4</sup>	.....	3	Approved Elective <sup>6</sup>	.....	3
Social Sciences <sup>2</sup>	.....	3	Social Sciences <sup>2</sup>	.....	3
		16			15

<sup>1</sup> See Special Course Requirements under Degrees and Credentials.

<sup>2</sup> Social Sciences: Select from Anth 2, 3, 4; As Am 15; B1 S 38, 135; Crim 1, 132; Econ 1A-B, 101; Geog 3, 4; Hist 4, 5; La R 3, 5; NAS 103; P1 Si 1; Psych 134; Soc 1, 2; W S 10.

<sup>3</sup> Humanities: Select from Art 1; Art H 10, 20; B1 S 25; Drama 1, 62; Engl 30, 76; Hist 1, 2; La R 7, 9; Music 73, 74, 75; Phil 1; RTV 127, 128; W S 145, 168.

<sup>4</sup> General Electives: May be approved electives but at least 1 unit must be from any area of General Education.

<sup>5</sup> Mathematics Electives: Select from Math 107, 121, 124, 128, 181, or 182.

<sup>6</sup> Approved Electives: Select from the following courses with at least 4 units from the underlined course numbers and to include at least one laboratory course from EE 183A, B, C, D:

(a) Electronics and communications: EE 134, 140, 161, 166, 171, 176, 183A, 183C.

(b) Computer sciences and digital systems: EE 106, 107, 133, 175, 183B, Engr 173.

(c) Power systems and energy conversion: E E 151, 183D.

\* or Chem 1B.