

BS Electrical Engineering Suggested Four Year Plan 2016 – 17 Catalog

6/1/2016

A grade of C- or better is required

CS 1336/1136
Programming
Fundamentals

CS1336 is required of
students with no prior
programming experience
Not For Credit in ECS
C- or better needed

Freshman

Description	Course No
Introduction to Engr & CS	ECS 1100
Introduction to EE	EE 1100
Introduction to Programming	CS 1325
Calculus I	Math 2413 or 2417
6 hours CORE: Choices below	

ECS 1100

EE 1100

CS 1325

Math 2413
Math 2417

CORE

CORE

Freshman

Description	Course No
Intro to Elec. Engr II	EE 1202
Calculus II	Math 2414 or 2419
Applied Linear Algebra	ENGR 2300
Mechanics and Heat	Phys 2325
Mechanics and Heat Lab	Phys 2125
Introduction to Digital Systems	EE 2310
Multivariate Calculus (Summer)	MATH 2415

EE 1202

Phys 2325
Phys 2125

Math 2414
Math 2419

ENGR 2300

EE 2310

Math 2415

Calculus Complete

Sophomore

Description	Course No
Differential Equations	Math 2420
Probability Theory & Statistics	ENGR 3341
Electricity and Magnetism	Phys 2326
Electricity and Magnetism Lab	Phys 2126
6 hours CORE: Choices below	

Phys 2326
Phys 2126

Math 2420

ENGR 3341

CORE

CORE

Sophomore

Description	Course No
Electrical Network Analysis	EE 3301
Electrical Network Analysis Lab	EE 3101
Digital Circuits	EE 3320
Digital Circuits Lab	EE 3120
Advanced Engineering Math	ENGR 3300
General Chemistry	Chem 1311
General Chemistry Lab	Chem 1111
3 hours CORE: Choices below	

Chem 1311
Chem 1111

EE 3301
EE 3101

ENGR 3300

EE 3320
EE 3120

CORE

Junior

Description	Course No
Signals and Systems	EE 3302
Signals and Systems Lab	EE 3102
Electronic Devices	EE 3310
Electronic Devices Lab	EE 3110
Prof & Tech Communication	ECS 3390
6 hours CORE: Choices below	

EE 3310
EE 3110

EE 3302
EE 3102

Junior/ Rhet
1302

ECS 3390

CORE

CORE

Junior

Description	Course No
Electronic Circuits	EE 3311
Electronic Circuits Lab	EE 3111
Communication Systems	EE 3350
Communication Systems Lab	EE 3150
Systems and Controls	EE 4310
Social Issues & Ethics in ECS	ECS 3361
3 hours Free Elective	See Advisor

Free
Elec (3)

EE 3311
EE 3111

EE 4310

EE 3350
EE 3150

Junior

ECS 3361

Senior

Description	Course No
Senior Design Project I	EE 4388
Electromagnetic Engineering	EE 4301
6 hours EE Guided Elective	EE 43XX
3 hours Free Elective	See Advisor

Phys 2326

ENGR 3300

EE/CE/TE
3301

EE 4301

Free
Elec (3)

EE 4388

EE Guided
Elective
See Advisor

EE Guided
Elective
See Advisor

Senior

Description	Course No
Senior Design Project II	EE 4389
RF Circuit Design Principles	EE 4368
3 hours EE Guided Elective	EE 43XX
4 hours Free Elective	See Advisor

Free
Elec (1)

EE 4368

EE 4389

EE Guided
Elective
See Advisor

Free
Elective
(3)

Core Choices

Rhet 1302	3 hours From:	3 hours From:	6 hours From:
Govt 2305 Govt 2306	Ahst 1303 or 1304 Ahst 2331 Arts1301 Dance 1310 Dram 1310 Film 2332 Musi 1306	Ams 2300 Ams 2341 Huma 1301 Lit 2331 Phil 1301 Phil 2316 or 2317	Hist 1301 Hist 1302 Hist 2301 Hist 2330 Hist 2332

Ⓜ RHE1302 Pre-Req. to some
Labs: TAKE BY 3RD SEMESTER

Courses may be taken in any order,
as long as prerequisites are met.

LEGEND	
→	Prereq Critical Path
→	Pre-requisite
- - - →	Pre- or Co-requisite