BS Electrical Engineering Eight Semester Plan 2024-2025

Semester 1 and 2

MATH 2413 or 2417 Calculus I
ALEKS 80% or MATH 2312

ENGR 2300 Linear Algebra for Engineers
MATH 2414 or 2419

CS 1325 Intro to Programming
MATH 2413 or 2417

MATH 2414 or 2419 Calculus II
MATH 2413 or 2417

EE 1100 Intro to EE
First Year

MATH 2415 Calculus of Several Variables
MATH 2414

ECS 1100 Intro to Eng and CS
First Year

PHYS 2325/2125 Mechanics & Lab
MATH 2413 or 2417
MATH 2414 or 2419

Core

EE 1202 Intro to EE II
EE 1100

CHEM 1311/1111 General Chemistry & Lab

EE 2310 Intro to Digital Systems

Semester 3 and 4

ENGR 3341 Probability Theory & Statistics
MATH 2415 or 2419
MATH 2420

MATH 2420 Differential Equations
MATH 2415 or 2419
ENGR 2300

PHYS 2326/2126 Electricity and Magnetism and Lab
PHYS 2325/2125
MATH 2414 or 2419

Core

Core

EE 3201 Fundamentals I
RHET 1302
EE 1202
EE 2301
EE 3320

EE 2301 Electrical Network Analysis
PHYS 2326/2126
MATH 2420

ENGR 3300 Advanced Engineering Mathematics
MATH 2415 or 2419
ENGR 2300
MATH 2420

EE 3320 Digital Circuits
EE 2310

EE 3310 Electronic Devices
PHYS 2326/2126
MATH 2420

Semester 5 and 6

EE 3202 Fundamentals II Lab
ECS 2390
EE 3201

EE 3311 Electronic Circuits
EE 2301

EE 3302 Signals & Systems
ENGR 3300

EE 3161 Social Issues & Ethics in Engineering

ECS 2390 Professional and Technical Comm.
RHET 1302

Core

EE 42XX EE Elective Lab
EE 3202
See catalog

EE 4310 Systems & Controls
ENGR 2300
EE 3302

EE 4370 Embedded Systems
EE 3320

Core

Core

Core

Semester 7 and 8

EE 4301 Electromagnetic Engineering
PHYS 2326/2126
EE 2301
ENGR 3300

EE 4388 Senior Design Project I
ECS 2390
EE 3202
EE 3161
See catalog

EE Technical Elective
See catalog

EE Technical Elective
See catalog

EE Technical Elective
See catalog

Core

EE Technical Elective
See catalog

EE 4389 Senior Design Project II
EE 4388

EE Technical Elective
See catalog

Free Elective

Free Elective

Free Elective

REMAINING CORE CURRICULUM

RHET 1302	GOVT 2305	GOVT 2306	American History (060)	American History (060)	Language, Philosophy and Culture (040)	Creative Arts (050)	Social and Behavioral Sciences (080)

GRADE REQUIREMENTS
C- or better is required

First Year Only; Transfers sub with Technical Elective
Major Preparatory Course
Prerequisite
Pre- or Corequisite
Critical Path

ERIK JONSSON SCHOOL
OF ENGINEERING AND COMPUTER SCIENCE