Electrical Engineering

Prerequisite Flowchart

These requirements are effective for students admitted to the Electrical Engineering major beginning Fall 2021.

FRESHMAN YEAR

FALL Term 1
- Bioscience - 3/4
  Choose 1 from approved list
- CEM 141 - 4
  Gen Cem
- EGR 100 - 2
  Intro Engr Desgn
- MTH 132 - 3
  Calc I
- PHY 183 - 4
  Physics I
- WRA 101 - 4
  Univ Writing
  (Preq: WRA 1004 or designated score)

SPRING Term 2
- ECE 101 OR Elective - 1/4
- CSE 220 - 3
  Programming in C
- MTH 133 - 4
  Calc II
- PHY 184 - 4
  Physics II
- IAH 201-210 - 4
  *Div- N, I or D
  (Preq: WRA 1004 or designated score)
- ISS 2XX - 4
  *Div- N, I or D

SOPHOMORE YEAR

FALL Term 3
- CEM 161 - 1
  Cem Lab 1
  (P: CEM 141) OR
  PHY 191 - 1
  Physics Lab 1
  (P: PHY 183 or conc)
- ECE 201 - 3
  Circuits & Syst I
- MTH 234 - 4
  Multivar Calc
- PHY 280 - 4
  Electr Circuits
- EGR 100 - 2
  Intro Engr Desgn
- EIAH 101 - 4
  (Preq: WRA 1004 or designated score)

SPRING Term 4
- ECE 202 - 3
  Circuits & Syst II
- MTH 235 - 3
  Diff Equations
- PHY 280 - 4
  Electr Circuits
- ECE 230 - 3
  Digital Logic Fund
- Elective - 3/4
  crs of Gen Elecs

JUNIOR YEAR

FALL Term 5
- Elective - 3/4
  crs of Gen Elecs
- ECE 313 - 3
  Control Systems
- MTH 305 - 4
  Elec Flds & Waves I

SPRING Term 6
- ECE 320 - 3
  Engr Conv & Pwr Etl
- ECE 331 - 4
  Micropr & Dig Sys
- Elective - 3/4
  crs of Gen Elecs
- Mjr Elect #1 - 1/4
  Choose 1 from approved list
- Mjr Elect #2 - 3/4
  Choose 1 from approved list
- Mjr Elect #3 - 3/4
  Choose 1 from approved list
- Mjr Elect #4 - 3/4
  Choose 1 from approved list
- Mjr Elect #5 - 3/4
  Choose 1 from approved list
- Mjr Elect #6 - 3/4
  Choose 1 from approved list

SENIOR YEAR

FALL Term 7
- ECE 377 - 3
  Principles of Elec Devices
  (P: PHY 184)
- ECE 366 - 3
  Intro to Sig Proc
- Elective - 3/4
  crs of Gen Elecs
- Mjr Elect #1 - 1/4
  Choose 1 from approved list
- Mjr Elect #2 - 3/4
  Choose 1 from approved list
- Mjr Elect #3 - 3/4
  Choose 1 from approved list
- Mjr Elect #4 - 3/4
  Choose 1 from approved list
- Mjr Elect #5 - 3/4
  Choose 1 from approved list
- Mjr Elect #6 - 3/4
  Choose 1 from approved list

SPRING Term 8
- ECE 480 - 4 Sr.
  Design OR ECE 489
  - 4
  Independent Sr.
  Design
  (P: ECE 303, ECE 313, ECE 320, ECE
  331, ECE 366, ECE 390 or conc)
  OR
  ((CSE 325, ECE 390 or conc)) AND
  WRA XXX
- Elective - 3/4
  crs of Gen Elecs
- Mjr Elect #1 - 1/4
  Choose 1 from approved list
- Mjr Elect #2 - 3/4
  Choose 1 from approved list
- Mjr Elect #3 - 3/4
  Choose 1 from approved list
- Mjr Elect #4 - 3/4
  Choose 1 from approved list
- Mjr Elect #5 - 3/4
  Choose 1 from approved list
- Mjr Elect #6 - 3/4
  Choose 1 from approved list

LEGEND

Prerequisite  

Prerequisite or Concurrent

*Div: Complete courses in at least 2 out of 3 diversity categories – “N”, “I” or “D”

Last Revised: 10/16/2023