

College Mission

1. The Department Mission should have goals that flow from, but do not conflict with, the College Mission

Engineering Science & Physics Department Mission

2. Goals for the Majors and Minors should flow from, but not conflict with, the Department Mission

General Education Mission

General Education Offerings

- AST 1XX
- ENS 102
- GEO 1XX
- INS 1XX
- PHY 1XX
- SCI 106

3. The General Education Mission should be kept in mind when considering a cohesive approach to the Department's General Education offerings

Physics Minor

Pre-Minor

- Mathematics
- Physics

Requirements

- PHY 240; 356; 442; PHY 309/ENS 249; PHY 310 or CHM 330

Electives

Engineering Science AS

Requirements

ENS 100; 110; 464; ENS 362/CSC 462

ELT 113; 114; 224; 225; 331; 334; 437; 466

ENS 220 or CSC 346; ENS 221 or CSC 347

PHY 116 or PHY 120/121; PHY 156 or PHY 160/161

MTH 123; 130; 229; 230; 231

Electrical Engineering Technology Minor

ENS 102; 110

ELT 113; 224; 225

MTH 123

Electrical Engineering Technology AAS

Prerequisite Course

ECO 285

Core Requirements

ENS 100; 110; 220; 221; 241; 250

CSC 126

MTH 229; 231; 232; 233

PHY 120/121; 160/161

Electives

ECO 285 PHY 240

CHM 121/141

ENS 310; 331; 362

MTH 330; 311

General /Integrated Science Courses

SCI 106

INS 1XX

Physics BS

Pre-Major

PHY 120/121; 160/161; 240; 250

MTH 229/230, 229/231/232/233, or 229/235/236

CHM 121/141; 127/142

Major Requirements

CSC 126

MTH 330; 311 or 331

PHY 309; 310; 315; 316; 356; 442; 485

MTH 3XX; 4XX

PHY 3XX; 4XX

Geology Minor

Pre-Minor

GEO 100/101; 102/103

Requirements

GEO 105; 220; 320; 322

Engineering Science BS

Pre-Major

ENS 100; 110; 136; 220; 221; 241; 249; 250

CSC 126

ECO 285

MTH 229; 231; 232

PHY 120/121; 160/161

CHM 121/141

Major Requirements

MTH 330; 311 or 331

ENS 310; 336; 371; 485; 491; 492; 439 or 459; 331 or 450

CSC 326, or ENS 380, or ENS 420

CSC 332, or ENS 316, or ENS 356

ENS 362 / CSC 462

Electives

Computer Engineering, Electrical Engineering, or Mechanical Engineering

4. EVERY combination of required and elective courses for EVERY offering should ensure that students can meet both the goals of the degree being sought and the Department Mission