






















CURRICULA



















-  Electrical Engineering
-  Computer Engineering
-  Renewable Electric Energy Systems

Fall Semester

Freshman
















-    CH 101 Chemistry, A Molecular Science
-    CH 102 General Chemistry Lab
-    E 101 Intro to Engr & Problem Solving
-    E 115 Intro to Computing Environment
-    ENG 101 Academic Writing & Research
-    MA 141 Calculus
-    Economics (EC 201/205, ARE 201)

Spring Semester

















-    ECE 109 Intro to Computer Systems
-    MA 241 Calculus II
-    PY 205 Physics for Engineers and Scientists I
-    PY 206 Physics for Engineers and Sci I Lab
-    Health and Exercise Studies Elective
-    E 102 Engineering in the 21st Century

Fall Semester

Sophomore



















-    ECE 200 Intro to ECE Laboratory
-    ECE 209 Computer Systems Programming
-    MA 242 Calculus III
-    PY 208 Physics for Engineers & Scientists II
-    PY 209 Physics for Engineers & Sci II Lab

Spring Semester























-    COM 110 Public Speaking
-    ECE 211 Electric Circuits
-    ECE 212 Fundamentals of Logic Design
-    ECE 220 Analytical Foundations of ECE
-   General Education Program Elective
-   CSC 226 Discrete Mathematics

Fall Semester

Junior


















-    ECE 301 Linear Systems
-    ECE 302 Intro to Microelectronics
-    ST 371 Intro to Prob. and Dist. Theory
-   ECE 3xx ECE Foundation Elective
-   Health and Exercise Studies Elective
-   General Education Program Elective
-   ECE 306 Intro to Embedded Systems
-  ECE 305 Int. Power Systems

Spring Semester


















-    ENG 331 Comm. for Engr & Tech.
-   ECE 303 Electromagnetic Fields
-   ECE 3xx ECE Foundation Elective
-    ECE 380 or 381 or 383
-    Technical Engineering Elective
-   General Education Program Elective
-   Health and Exercise Studies Elective
-   ECE 309 Object-Oriented Programming
-   ECE 310 Design of Complex Digital Sys.
-  ECE REES Elective

Fall Semester

Senior

-    ECE 484 ECE Senior Design Project I
-   ECE 4xx Elective
-   Technical Engineering Elective
-    General Education Program Elective
-    ECE 4xx Elective
-   ECE 452 Renew. Elec. Energy Systems
-   General Education Program Elective

Spring Semester

-    ECE 485 Senior Design Project II
-    ECE 4xx Elective
-    General Education Program Elective
-    General Education Program Elective
-    ECE 4xx Elective
-  ECE REES Elective
-  Open Technical Elective

DUAL DEGREE

Double Major in Electrical Engineering and Computer Engineering

Students who complete first-year engineering requirements can apply to the EE/CPE Dual Degree program.

The curriculum follows the Computer Engineering curriculum, taking ECE 303 (Electromagnetic Fields) as the open elective, and adding three extra classes (1 foundation elective and 2 Electrical Engineering electives).

ACCELERATED BS/MS

Get a Bachelor's and a Master's Degree in Five Years

The Accelerated Bachelors/Master's (ABM) degree program allows exceptional undergraduate students at NC State an opportunity to complete the requirements for both the bachelor's and master's degrees at an accelerated pace.

The ABM program allows ECE undergraduates who have an overall GPA > 3.5 to complete up to 18 credit hours of graduate courses that can be used to meet Master of Science (MS) degree requirements.

These undergraduate students may double count up to 12 graduate-level credits (500 or 700 level) and obtain a non-thesis master's degree within 12 months of completing the bachelor's degree or obtain a thesis based master's degree within 24 months of completing the bachelor's degree.