

NC State Havelock Engineering – Electrical & Mechanical Concentrations

First Year

Sophomore Year

Junior Year

Senior Year

CH 101/102
Chemistry I

GC 120 Engr
Graphics

MA 305
Lin Algebra

MA 141/241
Calc I&II
PY 205
Physics-I

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Raleigh Course

Local Course

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Transfer

Common Courses

Electrical Concentration **Mechanical Concentration**

FALL

MSE 201
Mech. Prop.
Of Mater.

MAE 206
Statics

PY 208/209
Physics-II

MA 242
Calc III

MES 200
Intro Engr
Sys.

ECE 200
Intro to
Signals,
Circuits,
Systems

SPRING

CSC 113
MATLAB

MA 341
Differential Eq.

MAE 208
Dynamics

MAE 214
Solid Mech.

MES 201
Engr Sys.
Lab 1

ECE 220
Anal. Found.

ECE 211
Electric Circuits

ECE 109 Intro
to Computer
Systems

FALL

MAE 201
Thermo. I

MAE 308
Fluid
Mechanics

MAE 315
Dynam. of
Machines

MES 301
Engr Sys. Junior
Design Lab

ECE 301
Linear Sys.

ECE 302
Microelectronics

ECE 209 Computer
Sys. Prog.

SPRING

MAE 435
Auto. Controls

MAE 316
Strength of Comp.

MES 302
Mech Engr Sys Lab 1

MES 300
Systems Engr.

MES 304
Elec Engr. Sys Lab 1

ECE Foundation
Elective

ECE 212 Fund
of Logic Design

FALL

MAE 310
Heat Trans.

MAE 413 Design
of Mechanical
Systems

MES 400
Mech Engr Sys Lab 2

MES 401
Capstone
I

MES 404
Elec Engr. Sys Lab 2

ECE Elective

ECE Foundation
Elective

ECE 303
Electromagnetic
Fields

SPRING

ECE 331
Princ. Of E.E.

MAE 412
Design of
Thermal Sys.

Mech. Hours
Math/Sc = 30
Engr = 62
Other = 32
Total = 124

MES 403
Capstone
II

Elec. Hours
Math/Sc = 30
Engr = 58
Other = 36
Total = 124

ECE Elective

ECE Elective