

DEGREE PROGRAM FOUNDATION COURSES

UNIVERSITY OF NORTH DAKOTA SCHOOL OF ENGINEERING AND MINES

Any student desiring to apply for admission to one of the School of Engineering and Mines' Professional Degree Programs must complete or be in the process of completing the Foundation Course work as indicated below and earn at least a **C** grade in each of these courses.

All programs **require** the following courses:

Course Name	Course Number	Course Name	Course Number
ENGLISH	~ Engl 110 – College Comp I ~ Engl 120 – College Comp II or Engl 125 – Tech. & Business Writing	PHYSICS (Calculus Based)	~ Phys 251 – University Physics I ~ Phys 252 – University Physics II
MATHEMATICS	~ Math 165 – Calculus I ~ Math 166 – Calculus II ~ Math 265 – Calculus III		

IN ADDITION TO THE ABOVE COURSES, each department requires the following course work:

CHEMICAL ENGINEERING

Required Courses:

Fund. Of Chemistry Concepts Chem 221/221L
Fund. Of Chemistry Analysis Chem 222 & 222L
Stoichiometry ChE 201

Select **three** courses from the following:

Intro. to ChE ChE 102
Unit Operations ChE 206
ChE Lab I ChE 232
Organic Chemistry I/Lab Chem 341/341L
Statics Engr 201
Elem. Differential Equations Math 266

CIVIL ENGINEERING

Required courses:

General Chemistry I/Lab Chem 121/121L
General Chemistry II/Lab Chem 122 & 122L
OR General Biology I/Lab Biol 150 & 150L
Graphical Communications Engr 101
Statics Engr 201
Mechanics of Materials Engr 203

Select **one** courses from the following:

Computer Appl. in Engr. Engr 200
Dynamics Engr 202

GEOLOGICAL ENGINEERING

Required courses:

Geology for Engineers GeoE 203
General Chemistry I Chem 121/121L

Select **three** courses from the following:

Computer Appl. in Engr. Engr 200
Statics Engr 201
Dynamics Engr 202
Mechanics of Materials Engr 203
Circuit Analysis EE 206

ELECTRICAL ENGINEERING

Required Courses:

Circuit Analysis EE 206
Programming Course Advisor Approval
General Chemistry I Chem 121/121L

Select **four** courses from the following:

Elem. Differential Equations Math 266
Digital Logic EE 201
Computer Aided Meas. EE 304
or a programming course
Linear Electric Circuits EE 313
Graphical Communications Engr 101
Statics Engr 201
Dynamics Engr 202
Mechanics of Materials Engr 203
Materials Science ME 301
Fluid Mechanics ME 306
Thermodynamics ME 341

MECHANICAL ENGINEERING

Required Course:

General Chemistry I Chem 121/121L

Select **five** courses from the following:

Intro to ME ME 101
Computer Appl. in Engr. Engr 200
Statics Engr 201
Dynamics Engr 202
Mechanics of Materials Engr 203
Circuit Analysis EE 206
Thermodynamics ME 341