Mathematics and Basic Science

Calculus and Differential Equations
Probability and Statistics
Physics
Chemistry
Science Elective from 3rd Area

General Foundations

First Year Seminar
English
Philosophy
Religion
Physical Education

Historical & Cultural Foundations

History
Literature
Fine Arts

Social & Behavioral Foundations
(Two Courses from the following)

Economics
Geography
Political Science
Psychology
Sociology
Criminal Justice

General Engineering

Introduction to Design
Statics and Dynamics
Mechanics of Materials with Lab
Civil Engineering Materials with Lab
Graphics and CAD

Geotechnical

Soil Mechanics
Soil Mechanics Lab

Structural

Structural Analysis
Reinforced Concrete Design

Transportation & Construction Management

Surveying
Transportation Engineering
Transportation Lab

Water Resources & Environmental

Fluid Mechanics w/ Lab
Hydrology
Hydraulic Engineering
Environmental Engineering

Geotechnical Electives

Physical Geology
Foundation Design
Seismic Evaluation
Adv. Foundation Design
Insitu Soil Testing
Engineering Geology

Structural Electives

Steel Design
Wood Design
Matrix Structural Analysis
Structural Systems Design
Earthquake Engineering
Dynamics of Structure
Masonry Design
Adv. Steel Design
Prestressed Concrete Design

Transportation & Construction Management Electives

Adv. Transportation Engineering
Pavement Design
Traffic Capacity Analysis
Transportation Planning
Construction Management

Water Resources & Environmental Electives

Solid Waste Management
Industrial Waste Management
Water Resources Design
Environmental Processes Lab
Wastewater System Design

Preparation for Professional Practice

Internship
Ethics Law and Economics in Engineering Practice
Senior Design I
Senior Design II