Building Engineering Program Course Tree

Level 0

MDP011	3
Engineering Drawing	

PHM031	3
Statics	

PHM021	3
Vibration and Waves	

PHM012	3
Mathematics (1)	

PHM041	3
Engineering Chemistry	

CSE031	2
Computing in Engineering	

PHM011	0
Basic Mathematics	

PHM022	3
Electricity and Magnetism	

PHM032	3
Dynamics	

MDP081	3
Production Engineering	

PHM013	3
Mathematics (2)	

ENG011	2
Fundamentals of Engineering	

CEP011	3
Projection and Engineering Graphics	

ASU011	0
Technical English Language	

Level 1

ARC161	2
Introduction to Lighting Systems	

CES151	2
Structures and Properties of Construction Materials	

CES113	3
Structural Mechanics	

PHM112	4
Differential Equations and Numerical Analysis	

PHM111	2
Propapility and Statistics	

CES171	2
Engineering Economics and Finance	

ASU111	2
Human Rights	

CES152	2
Properties and Testing of Materials	

CES114	3
Strength of Materials	

CEI113	3
Fluid Mechanics for Civil Engineers	

CES161	2
Geology	

ARC143	3
Building Engineering Drawing	

ASU113	3
Professional Ethics and Legislations	

Level 2

MEP213	3
Thermal Analysis of Buildings	

CES251	3
Concrete Technology (1)	

CES224	3
Concrete Structures Design (1)	

CES213	3
Structural Analysis	

CEP213	4
Surveying (1)	

CEP221	3
Introduction to Transportation and Traffic Engineering	

ENG111	
Training	

ARC263	2
Fundamentals of Building Acoustics	

CES252	3
Concrete Technology (2)	

CES241	3
Steel Structures Design (1)	

CES263	4
Soil Mechanics (1)	

CEP214	4
Surveying (2)	

CES271	2
Project Management Essentials	

Level 3

	2
ASU Elective (1)	

CES324	3
Concrete Structures Design (2)	

CES344	3
Steel Structures Design (2)	

CES364	3
Soil Mechanics (2)	

ASU112	3
Report Writing and Communication Skills	

CES372	3
Construction Planning and Scheduling	

MEP342	2
HVAC System Design	

CES315	3
Introduction to Structural Dynamics	

CES365	3
Foundation Design (1)	

	3
Building Engineering Elective (1)	

	2
ASU Elective (2)	

CES325	3
Construction Engineering	

Level 4

	3
Building Engineering Elective (3)	

CES427	3
Concrete Structures Design (3)	

CES467	3
Foundation Design (2)	

CES493	3
Building Engineering Design Graduation Project (1)	

	3
Building Engineering Elective (2)	

ASU114	2
Selected Topics in Contemporary Issues	

ARC466	2
Building Envelope Design	

CES454	3
Modern Building Materials	

	3
Building Engineering Elective (5)	

CES495	3
Building Engineering Design Graduation Project (2)	

CES494	2
Senior Seminar	

	3
Building Engineering Elective (4)	

Legend

- University Requirement
- Program Requirement
- Course Should be Passed Successfuly
- Faculty Requirement