

<b>College</b>	<b>College of Engineering</b>	<b>Department</b>	<b>Civil and Construction Engineering</b>
<b>Program</b>	<b>Civil Engineering</b>	<b>Degree Level</b>	<b>Bachelor of Engineering</b>
<b>Total Credit Hours</b>	<b>137 CH</b>	<b>Applicable for batch of</b>	<b>2018 and above</b>

Year One		Year Two		Year Three		Year Four		Year Five
Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall
ISLM101 Islamic Civilization	CHEM101 Chemistry	CVEN310 Surveying Pre-R: MATH101	CVEN232 Engineering Geology Pre-R: CHEM101	CVEN301 Design of Concrete Structure I Pre-R: CVEN340	MATH305 Numerical Methods Pre-R: MATH102	CVEN443 Foundation Engineering Pre-R: CVEN260	CVEN491 Capstone Design Project I Pre-R: 90CH	CVEN592 Capstone Design Project II Pre-R: CVEN491
ENGL101 English Communication Skills 1	ENGL102 English Communication Skills 2 Pre-R: ENGL101	CVEN332 Civil Engineering Materials Pre-R: ENGR110	CVEN333 Mechanics of Materials Pre-R: CVEN332	CNMN405 Building Information Modelling Pre-R: ENGR201	CVEN260 Geotechnical Engineering Pre-R: CVEN232	MATH406 Calculus III Pre-R: MATH102	CVEN361 Environmental Engineering Pre-R: CHEM101	CVEN563 Traffic Engineering Pre-R: MATH204
ENGR111 Computer Applications	MATH102 Calculus 2 Pre-R: MATH101	ENGR201 Engineering Drawing	CVEN362 Transportation Engineering Pre-R: CVEN310	CVEN324 Integrating Group Project Pre-R: ENGR202	CVEN350 Thermofluids Engineering Pre-R: PHYS102	CVEN451 Hydraulics Engineering Pre-R: CVEN332	CVEN545 Analysis of Structure II Pre-R: CVEN340	CVEN552 Engineering Hydrology Pre-R: CVEN451
MATH101 Calculus I	PHYS102 Physics 2 Pre-R: PHYS101	ENGR202 Technical Writing and Presentation Pre-R: ENGL102	CVEN340 Analysis of Structure I Pre-R: ENGR220	CVEN471 Engineering Project Management Pre-R: ENGR201	MATH204 Probability and Statistics Pre-R: MATH102	ENGR404 Engineering Economics Pre-R: MATH204	Civil Engineering Elective	Civil Engineering Elective
PHYS101 Physics I	ENGR110 Engineering Laboratories	MATH215 Linear Algebra Pre-R: MATH101	ENGR321 Dynamics Pre-R: ENGR220	MNGT 313 Entrepreneurship Pre-R: 60CH	MATH203 Differential Equations Pre-R: MATH102	CVEN444 Design of Concrete Structures II Pre-R: CVEN301	CVEN441 Design of Steel Structures Pre-R: CVEN340	Civil Engineering Elective
		ENGR220 Statics Pre-R: MATH101					ENGR322 Summer Internship	
<b>15 CH</b>	<b>15 CH</b>	<b>18 CH</b>	<b>14 CH</b>	<b>15 CH</b>	<b>15 CH</b>	<b>15 CH</b>	<b>15 CH</b>	<b>15 CH</b>

## List of Elective Courses:

A student must register in **3** courses with total of **9** credits hours following the program study plan

Course Code	Course Title	Pre-Requisite	Credits hours
CVEN536	Pre-stressed Concrete	CVEN444	3
COEN586	Sustainable Construction	CVEN361	3
CVEN544	Design of Temporary Structures	CVEN340	3
CVEN537	Ground Improvement	CVEN443	3
CVEN538	Earth Retaining Structures	CVEN443	3
CVEN546	Design and Rehabilitation of Pavements	CVEN260	3
CVEN554	Hydrogeology and Groundwater Contamination	CVEN451	3
ENEN431	Water and Wastewater Treatment	CVEN451	3
CVEN553	Water Resources Engineering	CVEN451	3
ENEN531	Advanced Wastewater Treatment	CVEN451	3
COEN282	Construction Equipment		3
COEN280	Construction Methodology		3
COEN585	GIS Applications in Civil Engineering		3
COEN587	Cost Estimating		3
CVEN521	Dynamics of Structures	ENGR321 CVEN340	3
ENEN401	Renewable Energy		3
CVEN520	Rock Engineering	CVEN443	3
CVEN564	Coastal Engineering	CVEN451	3
OJTR406	Industrial Internship I	90 Credit hours	0
OJTR407	Industrial Internship II	OJTR406	0