

# PROGRAM STRUCTURE DIAGRAM / Bachelor of Engineering in Civil Engineering

Year 1		Year 2		Year 3		Year 4		Year 5
FALL	SPRING	FALL	SPRING	FALL	SPRING	FALL	SPRING	FALL
ENGL101 English Communication Skills I	ENGL102 English Communication Skills II  Pre-R: ENGL101	CVEN310  Surveying	CVEN231  Engineering Geology  Pre-R: CHEM101	CVEN301  Design of Concrete Structures I  Pre-R: CVEN340	MATH305  Numerical Methods  Pre-R: ENGR111 MATH102	CVEN443  Foundation Engineering  Pre-R: CVEN260	CVEN491  Capstone Design Project I	CVEN592  Capstone Design Project II  Pre-R: CVEN491
ENGR111  Computer Applications	ENGR110  Engineering Laboratories	ENGR201  Engineering Drawing  Pre-R: FPIT002	CVEN333  Mechanics of Materials  Pre-R: ENGR220	MNGT 313  Entrepreneurship	CVEN260  Geotechnical Engineering	CVEN451  Hydraulics Engineering  Pre-R: CVEN350	CVEN361  Environmental Engineering	CVEN552  Engineering Hydrology  Pre-R: CVEN451
MATH101  Calculus 1  Pre-R: FPPM002	MATH102  Calculus II  Pre-R: MATH101	CVEN332  Civil Engineering Materials	CVEN362  Transportation Engineering	CNMN405  Building Information Modelling  ENGR201	CVEN350  Thermo- fluids Engineering	MATH406  Calculus III  Pre-R: MATH102	CVEN545  Analysis of Structures II  Pre-R: CVEN340	CVEN563  Traffic Engineering  Pre-R: CVEN362
PHYS101  Physics I	PHYS102  Physics II  Pre-R: PHYS101	ENGR220  Statics  Pre-R: MATH102	CVEN340  Analysis of Structures I	CVEN324  Integrating Group Project	MATH203  Differential Equations  Pre-R: MATH102	ENGR404  Engineering Economics  Pre-R: MATH204	CVEN441  Design of Steel Structures  Pre-R: CVEN340	Civil Engineering Elective
ISLM101  Islamic Civilization	CHEM101  Chemistry	ENGR202  Technical Writing and Presentation  ENGL102	ENGR321  Dynamics  Pre-R: ENGR220	CVEN470  Engineering Project Management	MATH204  Probability and Statistics  Pre-R: MATH102	CVEN442  Design of Concrete Structures II  Pre-R: CVEN301	Civil Engineering Elective	Civil Engineering Elective
		MATH215 Linear Algebra					<b>Summer Internship</b>	