168 CH

Shaqra University
College of Engineering

CIVIL ENGINEERING DEGREE FLOW CHART

								Credit Hours
Year 1 (PYP)	Level 1	**CHS 101** Health and Fitness *2 hrs.*	**PHYS 107** Introduction to Physics (1) *3 hrs.*	**ENGL 109** English (1) *6 hrs.*	**CT 130** Computer Skills *3 hrs.*	**MATH 130** Introduction to Math *3 hrs.*		**17 hrs.**
	Level 2	**RAD 101** Entrepreneurship *2 hrs.*	**ACT 105** Academic and Life Skills *3 hrs.*	**ENGL 110** English (2) *4 hrs.*	**ENGL 128** English for Eng. Purposes *2 hrs.*	**MATH 135** Mathematics *4 hrs.*		**15 hrs.**
Year 2 (BS)	Level 3	**GE 106** Introduction to Eng. *2 hrs.*	**GE 212** Computer Programming *3 hrs.*	**MATH 105** Differential Calculus *3 hrs.*	**PHYS 103** General Physics (1) *4 hrs.*	**CHEM 101** General Chemistry (1) *4 hrs.*	**IC 101** Intro. to Islamic Culture *2 hrs.*	**18 hrs.**
	Level 4	**ARAB 101** Language Skills *2 hrs.*	**MATH 106** Integral Calculus *3 hrs.*	**MATH 107** Vectors and Matrices *3 hrs.*	**PHYS 104** General Physics (2) *4 hrs.*	**GE 107** Eng. Drawing and Design *3 hrs.*	**ENGL 116** English Composition *3 hrs.*	**18 hrs.**
Year 3 (Major)	Level 5	**IC 102** Islam and Society Building *2 hrs.*	**MATH 203** Differential& Integt. Calculus *3 hrs.*	**CE 201** Statics *3 hrs.*	**CE 212** Surveying *3 hrs.*	**CE 240** Intro. to Environ. Eng. *3 hr.*	**ENGL 107** Technical Writing *3 hr.*	**17 hrs.**
	Level 6	**MATH 204** Differential *equation* *3 hrs.*	**ME 202** Dynamics *3 hrs.*	**CE 320** Fluids Mechanics *3 hrs.*	**CE 319** Fluids Mechanics Lab. *1 hr..*	**CE 302** Mechanics *of Materials* *3 hrs.*	**CE 305** Mechanics *of Materials Lab.* *1 hr.* / **ARAB 103** Expository Writing *2 hrs.*	**16 hrs.**
Year 4 (Major)	Level 7	**IC 103** The Islamic Economics Sys *2 hrs.*	**MATH 254** Numerical Methods *3 hrs.*	**CE 323** Water Resources Eng. *3 hrs.*	**CE 307** Contraction Materials *3 hrs.*	**CE 360** Structural Analysis (1) *3 hrs.*	**CE 381** Geotechnical Engineering (1) *2 hrs.* / **CE 382** Geotechnical Eng. Lab. *1 hrs.*	**17 hrs.**
	Level 8	**STAT 324** Eng. Probability and Statistics *3 hrs.*	**CE 330** Traffic Engineering (1) *3 hrs.*	**CE 341** Water sup.& Wastewater *3 hr.*	**CE 370** Reinforced Concr. Des. (1) *3 hrs.*	**CE 460** Structural analysis (2) *3 hrs.*	**CE 481** Geotechnical Engineering (2) *2 hrs.*	**17 hrs.**
Year 5 (Track)	Level 9	**CE 431** Highway Engineering *3hrs.*	**CE 432** Highway Eng. Lab. *1 hr.*	**CE 4xx** Specialized Elective Cours 1 *3 hrs.*	**CE 4xx** Specialized Elective Cours 2 *3 hrs.*	**CE 404** Management of Eng. Projects *2 hrs.*	**CE 482** Foundation Engineering *2 hrs.* / **CE 496** Senior Design Project (1) *2 hrs.*	**16 hrs.**
	Level 10	**IC 104** Fundamental of Islamic Politic. Sy. *2 hrs.*	**GE 403** Engineering Economy *2 hrs.*	**CE 4xx** Specialized Elective Cours 3 *3 hrs.*	**CE 4xx** Specialized Elective Cours 4 *3 hrs.*	**CE 410** Construction Eng. and Mang. *3 hrs.*	**CE 497** Senior Design Project (2) *2 hrs.* / **GE 490** Ethics and Professional *2 hrs.*	**17 hrs.**

100 Credit Hours excluding PYP year → **CE 499** Cooperative Summer Training

Legend

Course Code Course Name *Credit Hours*	
Preparatory Year	
College Requirements	
University Requirements	Courses from Other departments
Department Requirements	Department Technical Electives

Prerequisite ⟶

Corequisite ⟶

Track Name:

Pre-requisite: Completes successfully at least 100 credit hours excluding preparatory year

Department Technical Electives List

Code	Name	Pre-requisite
1. CE4…	……	……
2. CE4…	……	……
3. CE4…	……	……
4. CE4…	……	……

As of November 17, 2019. For questions, please feel free to contact us at coe.ce@su.edu.sa