

Bachelor of Science in Civil Engineering

Study Plan (Fall Start)

First Year (Freshman)

Total Credit hours: 142

Semester 1

Code	Title	Cr.	Prerequisite	Co-Req.
ARL 100(A)	Communication Skills in Arabic I	3	Nil	nil
STT 100	General Statistics	3	Nil	nil
MTT102	Calculus 1	3	MPT or MTT 101 (C grade)	nil
FWS 100(E)	Academic Skills for Success	3	Nil	nil
ISL 100(A)	Islamic Culture	3	Nil	nil
CIV 104	Introduction to Civil Engineering	3	Nil	nil

Total Credit Hours 18

Semester 2

Code	Title	Cr.	Prerequisite	Co-Req.
GEN 101	Introduction to Artificial Intelligence	3	STT100	
CIV 102	Computer Aided Drawing	3	nil	nil
FWS 205	UAE and GCC Society	3	ENG102+ FWS100(E) or FWS100(E) as (Co) if placed in ENG200	
MTT 200	Calculus II	3	MTT 102	nil
PHY 102	Physics and Engineering Applications I	3	MTT 102	nil
PHY 102L	Physics and Engineering Applications I Lab	1	MTT 102	PHY 102
ENG 200	English II	3	EPT/ or Passing grade in ENG102 + FWS100(E). FWS100(E) as (Co) if placed in ENG200	

Total Credit Hours 19

Second Year(Sophomore)

Semester 3

Code	Title	Cr.	Prerequisite	Co-Req.
CSC 201	Computer Programming I	3	MTT 101 or higher	nil
PHY 201	Physics and Engineering Applications II	3	PHY 102	nil
PHY 201L	Physics and Engineering Applications II Lab	1	PHY 102	PHY 201
CIV 201	Statics	3	PHY 102	nil
MTT 201	Calculus 3	3	MTT 200	nil
CHE 205	Chemistry	3	(Co) ENG102 / ENG 200	nil
CHE 201L	Chemistry Lab	1		CHE 205

Total Credit Hours 17

Semester 4

Code	Title	Cr.	Prerequisite	Co-Req.
GOL 205	Physical Geology	3	nil	ENG200
FWS 305	Technical Communications for Work Place	3	ENG 200+Completion of min 45CH	nil
CIV 206	Mechanics of Materials	3	CIV 201	nil
CIV 205	Introduction to Geomatics	3	MTT102	nil
MTT 204	Introduction to Linear Algebra	3	MTT 200	nil
MTT 205	Differential Equations	3	MTT 200	MTT204

Total Credit Hours 18

Third Year (Junior)

Semester 5

Code	Title	Cr.	Prerequisite	Co-Req.
CIV 314	Structural Analysis	3	CIV 206	nil
CIV 242	Fluid Mechanics	3	CIV 201, MTT 200	
CIV 242L	Fluid Mechanics Lab	1		CIV 242
CIV 313	Construction Materials	3	CIV 206, CHE 205	
CIV 313L	Construction Materials Lab	1		CIV 313
CIV 362	Construction Management	3	ENG 200	
GEN 300	Numerical Methods	3	CSC201, MTT 205	

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Summer Semester

Code	Title	Cr.	Prerequisite
CIV 399		3	Completion of 105 credit Hours

Semester 6

Code	Title	Cr.	Prerequisite	Co-Req.
CIV 332	Fundamentals of Transportation Engineering	3	CIV 205	nil
CIV 343	Hydraulics	3	CIV 242	nil
CIV 352	Fundamentals of Environmental Engineering	3	CHE 205, CIV 104	nil
CIV 324	Geotechnical Engineering	3	CIV 206	GOL205
CIV 324L	Geotechnical Engineering Lab	1		CIV324
CIV 316	Structural Systems	3	CIV 314	nil
CIV 318	Reinforced Concrete Design I	3	CIV 314, CIV 313	nil

Total Credit Hours 19

Fourth Year (Senior)

Semester 7

Code	Title	Cr.	Prerequisite	Co-Req.
CIV 413	Structural Steel Design	3	CIV 314	nil
CIV 497	Capstone Design Project I	1	103 credits + CIV316, CIV318, CIV324, CIV332, CIV352 and CIV343	nil
CIV 421	Foundation Engineering	3	CIV 324	nil
CIV 331	Highway Engineering	3	CIV 205	
CIV 442	Hydrology and Urban Water Systems	3	CIV 343	
ME 1	Major Elective 1	3		nil

Semester 8

Code	Title	Cr.	Prerequisite	Co-Req.
FWS 310	Fund. of Innovation & Entrepreneurship	3	ENG200 +Completion of min 60CH	
CIV 498	Capstone Design Project II	3	CIV 497	nil
GEN201	Engineering Economy	2	ENG200, MTT102	nil
ME 2	Major Elective 2	3		nil
GEN 400	Engineering Ethics	1	Senior Status	nil
OE1	Open Elective I	3		