

**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	Communication Skills in Arabic I	3	Nil	nil
STT 100	General Statistics	3	Nil	nil
MTT102	Calculus 1	3	C grade in MTT 101 or MPT	nil
UNS 102	University Study Skills	1	Nil	nil
ISL 100	Islamic Culture	3	Nil	nil
FWS 210	General Psychology	3	ENG 102 + UNS 102 (co-req)	UNS 102

**Total Credit Hours 16**

Semester 3

**Second Year (Sophomore)**

Code	Title	Cr.	Prerequisite	Co-Req.
CIV 205	Introduction to Geomatics	3	MTT 102, STT 100,	nil
PHY 201	Physics and Engineering Applications II	3	PHY 102	nil
PHY 201L	Physics and Engineering Applications II	1	PHY 102	PHY 201
CIV 201	Statics	3	PHY 102	nil
MTT 201	Calculus 3	3	MTT 200	nil
CHE 205	Chemistry	3	ENG 200	nil
CHE 201L	Chemistry Lab	1	ENG 200	CHE 205
CRT 301	Critical Thinking	2	UNS 102 + ENG 200	nil

**Total Credit Hours 19**

Semester 5

**Third Year (Junior)**

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	
CIV 401	Numerical Methods	3	MTT 204	MTT205

**Total Credit Hours 17**

Summer Semester

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

**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	Senior Status	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

**Total Credit Hours 16**

Semester 2

Code	Title	Cr.	Prerequisite	Co-Req.
ENG 200	English 2	3	*EPSS / ENG102 (C grade)	UNS102
CIV 102	Computer Aided Drawing	3	nil	nil
FWS 205	UAE and GCC Society	3	ENG 102 + UNS102 (co-req)	UNS102
MTT 200	Calculus 2	3	MTT 102	nil
PHY 102	Physics and Engineering Applications I	3	MTT 102	nil
PHY 102L	Physics and Engineering Applications I	1	MTT 102	PHY
CIV 104	Introduction to Civil Engineering	3	MTT 102	ENG 200

**Total Credit Hours 19**

Code	Title	Cr.	Prerequisite	Co-Req.
GOL 205	Physical Geology	3	ENG 200	nil
FWS 305	Technical Communications for Work Place	3	ENG 200 + Comp. of 45 c. hr.	nil
CIV 206	Mechanics of Materials	3	CIV 201	nil
GEN 200	Engineering Economy	3	ENG 200, MTT102	nil
MTT 204	Introduction to Linear Algebra	3	MTT 200	nil
MTT 205	Differential Equations	3	MTT 200	MTT

**Total Credit Hours 18**

Semester 6

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

**Total Credit Hours 19**

Semester 8

Code	Title	Cr.	Prerequisite	Co-Req.
FWS 310	Fund. of Innovation & Entrepreneurship	3	ENG200 + Comp of 60 c. hr.	
CIV 498	Capstone Design Project II	3	CIV 497	nil
ME 2	Major Elective 2	3		nil
CIV 402	Engineering Ethics	3	Senior Status	nil
OE	Open Elective	3		

**Total Credit Hours 15**

\*Note: English Proficiency Specified Score: Score of 1250+ & B2 (CEFR) in Writing Component for EmSat or/ 5.5 overall average & 5.5 specific score in Writing Component for IELTS, equivalent in other English Proficiency Test

