

**Bachelor of Science in Civil Engineering
Study Plan as of Fall 10-11**

Total Credit Hours **142**

First Year (Freshman)

Semester I (FALL)

Code	Title	Credit	Prerequisite(s)
ARL 100 (A)	Communication Skills in Arabic I	3	No Prerequisite
ENG 100	English I	3	No Prerequisite
ISL 100 (A)	Islamic Culture	3	No Prerequisite
MTT 102	Calculus I	3	Calculus Placement Test/MTT 101
STT 100	General Statistics	3	No Prerequisite
UNS 100	University Study Skills	3	No Prerequisite

Total Credit Hours 18

Semester II (SPRING)

Code	Title	Credit	Prerequisite(s)
ENG 105	English II	3	ENG 100 + UNS 100
CIV 102	Computer Aided Drawing	3	No Prerequisite
CIV 104	Introduction to Civil Engineering	3	MTT 102 + ENG 105 (Co)
MTT 200	Calculus II	3	MTT 102
PHY 102	Physics and Engineering Applications I	3	MTT 102
PHY 102L	Physics and Engineering Applications I Laboratory	1	MTT 102 + PHY 102 (Co)
SOC 201	UAE and GCC Society	3	No Prerequisite

Total Credit Hours 19

Second Year (Sophomore)

Semester III (FALL)

Code	Title	Credit	Prerequisite(s)
CHE 201	Chemistry	3	ENG 105
CHE 201L	Chemistry Laboratory	1	ENG 105 + CHE 201 (Co)
CIV 201	Statics	3	MTT 102
CIV 205	Introduction to Geomatics	3	MTT 102 + STT 100
MTT 201	Calculus III	3	MTT 200
PHY 201	Physics and Engineering Applications II	3	PHY 102
PHY 201L	Physics and Engineering Applications II Laboratory	1	PHY 102 + PHY 201 (Co)

Total Credit Hours 17

Semester IV (SPRING)

Code	Title	Credit	Prerequisite(s)
CIV 206	Mechanics of Materials	3	CIV 201
CIV 242	Fluid Mechanics	3	CIV 201 + MTT 200
CIV 242L	Fluid Mechanics Laboratory	1	CIV 201 + MTT 200 + CIV 242 (Co)
GEN 200	Engineering Economy	3	ENG 105 + MTT102
ENG 201	Business and Technical Communications	3	ENG 105
MTT 204	Introduction to Linear Algebra	3	MTT 200 + MTT205(Co)
MTT 205	Differential Equations	3	MTT 200 + MTT204(Co)

Total Credit Hours 19

Third Year (Junior)

Semester V (FALL)

Code	Title	Credit	Prerequisite(s)
CIV 313	Construction Materials	3	CIV 206 + CHE 201
CIV 313L	Construction Materials Laboratory	1	CIV 206 + CHE 201 + CIV 313 (Co)
CIV 314	Structural Analysis	3	CIV 206
CIV 331	Highway Engineering	3	CIV 205
CIV 343	Hydraulics	3	CIV 242
GOL 205	Physical Geology	3	ENG 105
OE1	Open Elective I	3	-

Total Credit Hours 19

Summer Semester

Code	Title	Credit	Prerequisite(s)
CIV 399I	Internship	3	100 Credit Hours

Fourth Year (Senior)

Semester VII (FALL)

Code	Title	Credit	Prerequisite(s)
CIV 401	Numerical Methods	3	MTT 205 + MTT 204
CIV 413	Structural Steel Design	3	CIV 314
CIV 421	Foundation Engineering	3	CIV 324
CIV 497	Civil Engineering Project I	2	Senior Status
ME1	Major Elective I	3	-

Total Credit Hours 14

Semester VIII (SPRING)

Code	Title	Credit	Prerequisite(s)
CIV 402	Engineering Ethics	3	Senior Status
CIV 442	Hydrology and Urban Water Systems	3	CIV 343
CIV 498	Civil Engineering Project II	2	CIV 497
ME2	Major Elective II	3	-
PSY 201	General Psychology	3	No Prerequisite

Total Credit Hours 14