School of Engineering and Engineering Technology

ENGINEERING, B.S.

CIVIL CONCENTRATION (CVE)

2018-19

SUGGESTED COURSE SEQUENCE

First Semest	er - Fall			econd Semester - Spring
17 Hours			-	7 Hours
CHEM 1111 3 General Che	emistry I Lab	COMM	1113 3	3 Intro to Speech Communication
CHEM 1113 1 General Che	emistry I	CVGR	1523 3	3 Intro to Civil Engineering (Spring only)
ENGL 1013 3 English Con	nposition I	ENGL	1023 3	3 English Composition II
ENGR 1513 3 Intro to Engi	neering Practice I (Fall only)	ENGR	1311 1	Manufacturing Processes Lab
	s of Life & Learning	MATH	2013 3	3 Calculus II ⁽¹⁾
MATH 1903 3 Calculus I (1)		PHYS	2011 1	University Physics I Lab (Spring only)
BIBL 1033 3 Biblical Liter	ature	PHYS	2013 3	3 University Physics I (Spring only)
Third Semes	ter - Fall		F	ourth Semester - Spring
17 Hours			1	7 Hours
CVGR 2023 3 Civil Engine	ering Materials (Fall only)	THEO	2043 3	Biblical Theology for the Christian Life
MATH 2023 3 Calculus III		CVGR	2113 3	3 Introduction to Surveying (Spring only)
MATH 2301 1 Linear Algeb	ora Lab	ENGR	2400 0) Sophomore Design Seminar (Spring only)
MATH 2303 3 Linear Algeb	ora	ENGR	2704 4	Project Mgmt, Design & Entrepreneurship
MEGR 2013 3 Statics ⁽¹⁾		MEGR		3 Mechanics of Materials ⁽¹⁾ (Spring only)
4 Science Ele	ctive ⁽²⁾		2	Science Elective ^(2,3)
Fifth Semest	er - Fall			Sixth Semester - Spring
15 Hours			1	7 Hours
	Hydraulic Engineering (Fall only)	BIBL		Biblical Engagement Elective
CVGR 3313 3 Structural A	nalysis (Fall only)	CVGR		Geotechnical Engineering (Spring only)
	tal Engineering (Fall only)	CVGR	2	Civil Emphasis Area Elective ⁽⁴⁾
MATH 2203 3 Differential I		MEGR	2023 3	3 Dynamics
3 Civic Engag	ement Elective		3	3 Civic Engagement Elective
Seventh Seme	ster - Fall			ighth Semester - Spring
16 Hours			1	4 Hours
	n Engineering (Fall only)	CVGR		Prof. Practice of Civil Engineering (Spring only)
CVGR 4 Civil Empha	sis Area Elective ⁽⁴⁾	CVGR	2	Civil Emphasis Area Elective ⁽⁴⁾
ENGR 4813 3 Senior Desig		ENGR	4823 3	3 Senior Design II (Spring only)
3 Ingenuity Ele 3 Approved El		THEO		3 Theological Engagement Elective 3 Approved Elective ^(5,6)

TOTAL HOURS 130

1: Minimum grade of 'C' required.

2: Science Electives may be chosen from BIOL 1111/1113, BIOL 3204, CHEM 1121/1123, ENVT 1111/1113, GEOL 1114, PHYS 2021/2023.

3: May be replaced by MATH 3403 plus MATH 4521.

4: See Civil Emphasis Elective groupings below. Student must select and complete all of the courses listed for one of the emphasis areas.

5: Approved 3000+ Science, Math, Engineering course or EEGR 2053. Requires advisor approval.

6: Approved Electives may include 3 hours of approved 2000+ ACCT, BUSI, ECON, or MGMT credit. Requires advisor approval.

CIVIL EMPHASIS AREA ELECTIVES					
STRUCTURAL ENGINEERING EMPHASIS		WATER RESOURCES ENGINEERING EMPHASIS			
CVGR	3224 4 Design of Steel Structures	CVGR 3204 4 Hydraulic Engineering Design			
CVGR	4314 4 Concrete Construction & Design	CVGR 4504 4 Water and Wastewater Engineering			
CVGR	4414 4 Design of Wood Structures	CVGR 4614 4 Hydrology			
	12 TOTAL STRUCTURAL ENGR EMPHASIS	12 TOTAL WATER RESOURCES EMPHASIS			

B.S., Engineering

Technical Course Sequence - Civil Concentration

