

SCHREINER UNIVERSITY

Bachelor of Science

Engineering – Civil track

Sample Four Year Plan beginning Fall 2023

This curriculum guide intended for use in coordination with corresponding degree plan and course rotation.

Total Credits 120

Fall Semester 1

COSC 1301 Programming Logic	3
ENGR 1111 Introduction to Engineering I	1
ENGR 1112 Introduction to Engineering II	1
IDST 1301 Freshman Studies	3
MATH 2422 Calculus I	4
Communications core course	3
<i>Credits</i>	15

Spring Semester 1

CHEM 1301/1101 General Chemistry I	4
ENGR 1113 Engineering Graphics I	1
ENGR 1114 Engineering Graphics II	1
Aesthetic Appreciation core course	3
Communications core course	3
Engagement core course	3
<i>Credits</i>	15

Fall Semester 2

ENGR 2310 Engineering Statics	3
MATH 2423 Calculus II	4
PHIL 1310 Intro to Ethics	3
PHYS 2325/2125 University Physics I	4
Engagement core course	3
<i>Credits</i>	17

Spring Semester 2

ENGR 2320 Engineering Dynamics	3
ENGR 2330 Mechanics of Materials	3
MATH 3425 Differential Equations	4
PHYS 2326/2126 University Physics II or	4
CHEM 1302/1102 General Chemistry II	
<i>Credits</i>	14

Fall Semester 3

ENGR 2331 Surveying	3
ENGR 3320 Fluid Mechanics	3
ENGR 3330 Structural Analysis	3
MATH 3324 Calculus III	3
Project Management Elective choice	3
<i>Credits</i>	15

Spring Semester 3

ENGR 3321 Environmental Engineering	3
Upper level ENGR Elective choice	3
Upper level MATH choice	3
Global Perspective core course	3
Elective course	3
<i>Credits</i>	15

Fall Semester 4

ENGR 3322 Materials Engineering	3
ENGR 4321/4101 Geotechnical Engineering	4
ENGR 4194 Senior Project I	1
ENGR 4195 Senior Project II	1
Upper level ENGR Elective choice	3
Global Perspective core course	3
<i>Credits</i>	15

Spring Semester 4

ENGR 4322 Transportation Engineering	3
Upper level ENGR Elective choice	3
Upper level ENGR Elective choice	3
ENGR 4196 Senior Project I	1
ENGR 4197 Senior Project II	1
Elective course	3
<i>Credits</i>	14