

SCHREINER UNIVERSITY

Bachelor of Science

Engineering – Mechanical track

Sample Four Year Plan beginning Fall 2025

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

Minimum 120 Credit Hours

Fall Semester 1

COSC 1303 Computer Programming I	3
ENGR 1301 Introduction to Engineering	3
MATH 2422 Calculus I	4
IDST 1301 Freshman Studies	3
Communications core course	3
<i>Credits</i>	16

Spring Semester 1

CHEM 1301/1101 General Chemistry I	4
ENGR 1310 Technical Graphics	3
Aesthetic Appreciation core course	3
Communications core course	3
Engagement core course	3
<i>Credits</i>	16

Fall Semester 2

ENGR 2310 Engineering Statics	3
ENGR 2340 Electrical Circuits	3
MATH 2423 Calculus II	4
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	
CHEM 1302/1102 General Chemistry II ²	4
<i>Credits</i>	14

Fall Semester 3

ENGR 3310 Engineering Thermodynamics	3
ENGR 3320 Fluid Mechanics	3
PHIL 1310, 2311, or 2312	3
Project Management Elective choice ³	3
MATH 3324 Calculus III	3
<i>Credits</i>	15

Spring Semester 3

ENGR 3322 Materials Engineering	3
ENGR 4340 Heat Transfer	3
Upper level ENGR Elective choice ⁴	3
Upper level MATH choice ¹	3
Global Perspective core course	3
<i>Credits</i>	15

Fall Semester 4

ENGR 3340 Design of Machinery	3
Upper level ENGR Elective choice ⁴	3
ENGR 4294 Senior Project I	2
Global Perspective core course	3
Elective course	3
<i>Credits</i>	14

Spring Semester 4

ENGR 4102 Robotics Lab	1
ENGR 4341 Dynamic Systems & Control	3
Upper level ENGR Elective choice ⁴	3
ENGR 4295 Senior Project II	2
Elective course	3
Elective course	3
<i>Credits</i>	15