SCHREINER UNIVERSITY
Bachelor of Science
Engineering – Mechanical track
Sample Four Year Plan beginning Fall 2024

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

Total Credits 120

Fall Semester 1	
CHEM 1301/1101 General Chemistry I	4
COSC 1301 Programming Logic	3
ENGR 1111 Introduction to Engineering I	1
ENGR 1112 Introduction to Engineering II	1
IDST 1301 Freshman Studies	3
Communications core course	3
Credits	**15**

Spring Semester 1	
ENGR 1113 Engineering Graphics I	1
ENGR 1114 Engineering Graphics II	1
MATH 2422 Calculus I	4
Aesthetic Appreciation core course	3
Communications core course	3
Engagement core course	3
Credits	**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
Credits	**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	4
Credits	**14**

Fall Semester 3	
ENGR 2340 Electrical Circuits	3
ENGR 3340 Design of Machinery	3
Project Management Elective choice	3
MATH 3324 Calculus III	3
Elective course	3
Credits	**15**

Spring Semester 3	
ENGR 3322 Materials Engineering	3
ENGR 4102 Robotics Laboratory	1
ENGR 4341 Dynamic Systems and Control	3
Upper level ENGR Elective choice	3
Upper level MATH choice	3
Global Perspective core course	3
Credits	**16**

Fall Semester 4	
ENGR 3310 Engineering Thermodynamics	3
ENGR 3320 Fluid Mechanics	3
Global Perspective core course	3
ENGR 4194 Senior Project I	1
ENGR 4195 Senior Project II	1
Upper level ENGR Elective choice	3
Credits	**14**

Spring Semester 4	
ENGR 4340 Heat Transfer	3
Upper level ENGR Elective choice	3
Upper level Project Mgmt Elective choice	3
ENGR 4196 Senior Project I	1
ENGR 4197 Senior Project II	1
Elective course	3
Credits	**14**