

# SCHREINER UNIVERSITY

## Bachelor of Science

### *Engineering – Mechanical track*

### **Sample Four Year Plan beginning Fall 2022**

*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
CIT 2410 – Introduction to Programming Logic	4
ENGR 1111 Introduction to Engineering I	1
ENGR 1112 Introduction to Engineering II	1
IDST 1301 Freshman Studies	3
Communications core course	3
<i>Credits</i>	<b>16</b>

#### **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
<i>Credits</i>	<b>15</b>

#### **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>	<b>17</b>

#### **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 <b>or</b> CHEM 1302/1102 General Chemistry II	4
<i>Credits</i>	<b>14</b>

#### **Fall Semester 3**

ENGR 2340 Electrical Circuits	3
ENGR 3322 Materials Engineering	3
ENGR 3340 Design of Machinery	3
Project Management Elective choice	3
MATH 3324 Calculus III	3
<i>Credits</i>	<b>15</b>

#### **Spring Semester 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
Elective course	3
<i>Credits</i>	<b>16</b>

#### **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
<i>Credits</i>	<b>14</b>

#### **Spring Semester 4**

ENGR 4340 Heat Transfer	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>	<b>14</b>