

Saint Louis University Bachelor of Science in Biomedical Engineering Industrial Track 4-Year Plan

* This form is a guide and does not replace the degree requirements provided in the university catalog.

Year 1

16 credits	<div style="border: 1px solid black; padding: 5px; background-color: #f4a460; margin-bottom: 5px;"> CHEM 1110/1115 General Chemistry I Chemistry Lab I 4 </div>	<div style="border: 1px solid black; padding: 5px; background-color: #ffff00; margin-bottom: 5px;"> MATH 1510 Calculus I 4 </div>	<div style="border: 1px solid black; padding: 5px; background-color: #f4a460; margin-bottom: 5px;"> BIOL 1240/1245 Biology I 4 </div>	<div style="border: 1px solid black; padding: 5px; background-color: #c09cf2; margin-bottom: 5px;"> ENGL 1900 Adv. Rhetoric 3 </div>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> BME 1000 Intro to BME I 1 </div>
13 credits	<div style="border: 1px solid black; padding: 5px; background-color: #f4a460; margin-bottom: 5px;"> CHEM 1120/1125 General Chemistry II Chemistry Lab II 4 </div> <div style="border: 1px solid black; padding: 5px; background-color: #cccccc; margin-bottom: 5px;"> CHEM 1110/1115 </div>	<div style="border: 1px solid black; padding: 5px; background-color: #ffff00; margin-bottom: 5px;"> MATH 1520 Calculus II 4 </div> <div style="border: 1px solid black; padding: 5px; background-color: #cccccc; margin-bottom: 5px;"> MATH 1510 </div>	<div style="border: 1px solid black; padding: 5px; background-color: #f4a460; margin-bottom: 5px;"> PHYS 1610/1620 Eng. Physics I/ Physics Lab I 4 </div> <div style="border: 1px solid black; padding: 5px; background-color: #cccccc; margin-bottom: 5px;"> MATH 1510 </div>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> BME 1010 Intro to BME II 1 </div>	

Year 2

17 credits	<div style="border: 1px solid black; padding: 5px; background-color: #f4a460; margin-bottom: 5px;"> PHYS 1630/1640 Eng. Physics II/ Physics Lab II 4 </div> <div style="border: 1px solid black; padding: 5px; background-color: #cccccc; margin-bottom: 5px;"> PHYS 1610/1620 </div>	<div style="border: 1px solid black; padding: 5px; background-color: #ffff00; margin-bottom: 5px;"> MATH 2530 Calculus III 4 </div> <div style="border: 1px solid black; padding: 5px; background-color: #cccccc; margin-bottom: 5px;"> MATH 1520 </div>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> BME 2200 Applied Physiology 3 </div>	<div style="border: 1px solid black; padding: 5px; background-color: #90ee90; margin-bottom: 5px;"> BME 3200 Mechanics 3 </div> <div style="border: 1px solid black; padding: 5px; background-color: #cccccc; margin-bottom: 5px;"> PHYS 1610 </div>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> BME 2000 BME Computing 3 </div> <div style="border: 1px solid black; padding: 5px; background-color: #cccccc; margin-bottom: 5px;"> MATH 1520 </div>	
17 credits	<div style="border: 1px solid black; padding: 5px; background-color: #90ee90; margin-bottom: 5px;"> ESCI 2300 Thermodynamics 3 </div> <div style="border: 1px solid black; padding: 5px; background-color: #cccccc; margin-bottom: 5px;"> MATH 2530 </div>	<div style="border: 1px solid black; padding: 5px; background-color: #ffff00; margin-bottom: 5px;"> MATH 3550 Differential Equations 3 </div> <div style="border: 1px solid black; padding: 5px; background-color: #cccccc; margin-bottom: 5px;"> MATH 2530 </div>	<div style="border: 1px solid black; padding: 5px; background-color: #90ee90; margin-bottom: 5px;"> ECE 2001/2002 Electrical & Computer Engineering 4 </div> <div style="border: 1px solid black; padding: 5px; background-color: #cccccc; margin-bottom: 5px;"> PHYS 1610/1620 MATH 1520 </div>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> BME 3400 Materials Science 3 </div> <div style="border: 1px solid black; padding: 5px; background-color: #cccccc; margin-bottom: 5px;"> CHEM 1120 BME 3200 </div>	<div style="border: 1px solid black; padding: 5px; background-color: #c09cf2; margin-bottom: 5px;"> THEO 1000 Theological Foundations 3 </div>	<div style="border: 1px solid black; padding: 5px; background-color: #90ee90; margin-bottom: 5px;"> MENG 2011 Engineering Shop Practices 1 </div>

Year 3

15 credits	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> BME 3100 Signals 3 </div> <div style="border: 1px solid black; padding: 5px; background-color: #cccccc; margin-bottom: 5px;"> ECE 2001/2002 MATH 3550 BME 2000 </div>	<div style="border: 1px solid black; padding: 5px; background-color: #ffff00; margin-bottom: 5px;"> STAT 3850 Statistics 3 </div> <div style="border: 1px solid black; padding: 5px; background-color: #cccccc; margin-bottom: 5px;"> MATH 2530 </div>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> BME 3300 Transport Fundamentals 3 </div> <div style="border: 1px solid black; padding: 5px; background-color: #cccccc; margin-bottom: 5px;"> BME 2000 & 3200 MATH 3550 PHYS 3410 </div>	<div style="border: 1px solid black; padding: 5px; background-color: #00ffff; margin-bottom: 5px;"> Advanced BME Elective 3 </div>	<div style="border: 1px solid black; padding: 5px; background-color: #c09cf2; margin-bottom: 5px;"> ECON 1900 Economics 3 </div>	
16 credits	<div style="border: 1px solid black; padding: 5px; background-color: #c09cf2; margin-bottom: 5px;"> PHIL 2050 Ethics 3 </div>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> BME 3150 Biomedical Instrumentation 3 </div> <div style="border: 1px solid black; padding: 5px; background-color: #cccccc; margin-bottom: 5px;"> BME 3100 BIOL 2600 </div>	<div style="border: 1px solid black; padding: 5px; background-color: #ff0000; margin-bottom: 5px;"> MENG 2600 Manufacturing Processes 3 </div> <div style="border: 1px solid black; padding: 5px; background-color: #cccccc; margin-bottom: 5px;"> ESCI 2001 </div>	<div style="border: 1px solid black; padding: 5px; background-color: #00ffff; margin-bottom: 5px;"> Advanced BME Elective 3 </div>	<div style="border: 1px solid black; padding: 5px; background-color: #00ffff; margin-bottom: 5px;"> Advanced BME Elective 3 </div>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> BME 3840 Junior Lab 1 </div> <div style="border: 1px solid black; padding: 5px; background-color: #cccccc; margin-bottom: 5px;"> BME 3100, 3300, & 3400 </div>

Year 4

15 credits	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> BME 4950 Senior Project I 3 </div> <div style="border: 1px solid black; padding: 5px; background-color: #cccccc; margin-bottom: 5px;"> BME 3150 & 3840 </div>	<div style="border: 1px solid black; padding: 5px; background-color: #00ffff; margin-bottom: 5px;"> Advanced BME Elective 3 </div>	<div style="border: 1px solid black; padding: 5px; background-color: #00ffff; margin-bottom: 5px;"> Advanced BME Elective 3 </div>	<div style="border: 1px solid black; padding: 5px; background-color: #ff0000; margin-bottom: 5px;"> IB 2000 International Business 3 </div>	<div style="border: 1px solid black; padding: 5px; background-color: #c09cf2; margin-bottom: 5px;"> Non-Technical Elective 3 </div>	
15 credits	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> BME 4960 Senior Project II 3 </div> <div style="border: 1px solid black; padding: 5px; background-color: #cccccc; margin-bottom: 5px;"> BME 4950 </div>	<div style="border: 1px solid black; padding: 5px; background-color: #00ffff; margin-bottom: 5px;"> Advanced BME Elective 3 </div>	<div style="border: 1px solid black; padding: 5px; background-color: #c09cf2; margin-bottom: 5px;"> ENGL 4000 Business & Professional Writing 3 </div>	<div style="border: 1px solid black; padding: 5px; background-color: #c09cf2; margin-bottom: 5px;"> Cultural Diversity 3 </div>	<div style="border: 1px solid black; padding: 5px; background-color: #ff0000; margin-bottom: 5px;"> MGT 2180 Legal/Business 3 </div>	

Legend

Course
Course Title
Prerequisites

3

← Credits

** Indicates a Co-Requisite Course

Advanced BME Fall: Biomedical Signals, Biomaterials, Quantitative Physiology I, Tissue Engineering, Brain Computer Interface

Advanced BME Spring: Biomechanics, Biotransport, Drug Delivery, Medical Imaging, Human Movement Biomechanics, Q P II

Color Code

	Sciences
	Mathematics
	Basic Engineering
	BME Core
	Other Courses
	BME-Related Electives
	Advanced BME Electives