

Saint Louis University Bachelor of Science in Biomedical Engineering

Pre-Health 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;"> CHEM 1110/1115 <i>General Chemistry I</i> <i>Chemistry Lab I</i> </div> 4	<div style="border: 1px solid black; padding: 5px; background-color: #ffff00;"> MATH 1510 Calculus I </div> 4	<div style="border: 1px solid black; padding: 5px; background-color: #f4a460;"> BIOL 1240/1245 <i>Biology I</i> </div> 4	<div style="border: 1px solid black; padding: 5px; background-color: #d8bfd8;"> ENGL 1900 <i>Adv. Rhetoric</i> </div> 3	<div style="border: 1px solid black; padding: 5px;"> BME 1000 Intro to BME I </div> 1
17 credits	<div style="border: 1px solid black; padding: 5px; background-color: #f4a460;"> CHEM 1120/1125 <i>General Chemistry II</i> <i>Chemistry Lab II</i> </div> 4	<div style="border: 1px solid black; padding: 5px; background-color: #ffff00;"> MATH 1520 Calculus II </div> 4	<div style="border: 1px solid black; padding: 5px; background-color: #f4a460;"> BIOL 1260/1265 <i>Biology II</i> </div> 4	<div style="border: 1px solid black; padding: 5px; background-color: #f4a460;"> PHYS 1610/1620 <i>Eng. Physics I/ Physics Lab I</i> </div> 4	<div style="border: 1px solid black; padding: 5px;"> BME 1010 Intro to BME II </div> 1

Year 2

17 credits	<div style="border: 1px solid black; padding: 5px; background-color: #f4a460;"> PHYS 1630/1640 <i>Eng. Physics II/ Physics Lab II</i> </div> 4	<div style="border: 1px solid black; padding: 5px; background-color: #ffff00;"> MATH 2530 Calculus III </div> 4	<div style="border: 1px solid black; padding: 5px;"> BME 2200 Applied Physiology </div> 3	<div style="border: 1px solid black; padding: 5px; background-color: #90ee90;"> BME 3200 Mechanics </div> 3	<div style="border: 1px solid black; padding: 5px;"> BME 2000 BME Computing </div> 3
17 credits	<div style="border: 1px solid black; padding: 5px; background-color: #90ee90;"> ESCI 2300 Thermodynamics </div> 3	<div style="border: 1px solid black; padding: 5px; background-color: #ffff00;"> MATH 3550 Differential Equations </div> 3	<div style="border: 1px solid black; padding: 5px; background-color: #90ee90;"> ECE 2001/2002 Electrical & Computer Engineering </div> 4	<div style="border: 1px solid black; padding: 5px;"> BME 3400 Materials Science </div> 3	<div style="border: 1px solid black; padding: 5px; background-color: #d8bfd8;"> SOC 1100 <i>Intro to Sociology</i> </div> 3

Year 3

16 credits	<div style="border: 1px solid black; padding: 5px;"> BME3100 Signals </div> 3	<div style="border: 1px solid black; padding: 5px; background-color: #ff6347;"> CHEM 2410/2415 <i>Organic Chemistry I</i> </div> 4	<div style="border: 1px solid black; padding: 5px;"> BME 3300 Transport Fundamentals </div> 3	<div style="border: 1px solid black; padding: 5px; background-color: #00ffff;"> Advanced BME Elective </div> 3	<div style="border: 1px solid black; padding: 5px; background-color: #d8bfd8;"> PSY 1010 <i>General Psychology</i> </div> 3
17 credits	<div style="border: 1px solid black; padding: 5px; background-color: #ffff00;"> STAT 3850 Statistics </div> 3	<div style="border: 1px solid black; padding: 5px;"> BME 3150 Biomedical Instrumentation </div> 3	<div style="border: 1px solid black; padding: 5px; background-color: #ff6347;"> CHEM 2420/2425 <i>Organic Chemistry II</i> </div> 4	<div style="border: 1px solid black; padding: 5px; background-color: #00ffff;"> Advanced BME Elective </div> 3	<div style="border: 1px solid black; padding: 5px; background-color: #ff6347;"> CHEM 3600 Biochemistry </div> 3

Year 4

15 credits	<div style="border: 1px solid black; padding: 5px;"> BME 4950 Senior Project I </div> 3	<div style="border: 1px solid black; padding: 5px; background-color: #00ffff;"> Advanced BME Elective </div> 3	<div style="border: 1px solid black; padding: 5px; background-color: #00ffff;"> Advanced BME Elective </div> 3	<div style="border: 1px solid black; padding: 5px; background-color: #d8bfd8;"> Humanities English Elective </div> 3	<div style="border: 1px solid black; padding: 5px; background-color: #d8bfd8;"> THEO 1000 Theological Foundations </div> 3
15 credits	<div style="border: 1px solid black; padding: 5px;"> BME 4960 Senior Project II </div> 3	<div style="border: 1px solid black; padding: 5px; background-color: #00ffff;"> Advanced BME Elective </div> 3	<div style="border: 1px solid black; padding: 5px; background-color: #d8bfd8;"> PHIL 2050 Ethics </div> 3	<div style="border: 1px solid black; padding: 5px; background-color: #d8bfd8;"> Cultural Diversity </div> 3	<div style="border: 1px solid black; padding: 5px; background-color: #00ffff;"> Advanced BME Elective </div> 3

Bold and Italics Indicates Pre-Health Requirements

Legend

Course
 Course Title

3
← Credits

Prerequisites

3
←

** 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