

Saint Louis University Bachelor of Science in Biomedical Engineering

Graduate School 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	BIOL 1240/1245 Biology I (4)	CHEM 1110/1115 General Chemistry I Chemistry Lab I (4)	MATH 1510 Calculus I (4)	ENGL 1900 Adv. Rhetoric (3)	BME 1000 Intro to BME I (1)
17 credits		CHEM 1120/1125 General Chemistry II Chemistry Lab II (4) CHEM 1110/1115	PHYS 1610/1620 Eng. Physics I/ Physics Lab I (4) MATH 1510	MATH 1520 Calculus II (4) MATH 1510	BME 1010 Intro to BME II (1)

Year 2

17 credits	BME 2200 Applied Physiology (3)	PHYS 1630/1640 Eng. Physics II/ Physics Lab II (4) PHYS 1610/1620	MATH 2530 Calculus III (4) MATH 1520	BME 3200 Mechanics (3) PHYS 1610	BME 2000 BME Computing (3) MATH 1520
16 credits	ESCI 2300 Thermodynamics (3) MATH 2530	MATH 3550 Differential Equations (3) MATH 2530	ECE 2001/2002 Electrical & Computer Engineering (4) PHYS 1610/1620 MATH 1520	ESCI 2001 Engineering Shop Practices (1)	BME 3400 Materials Science (3) CHEM 1120 BME 3200

Year 3

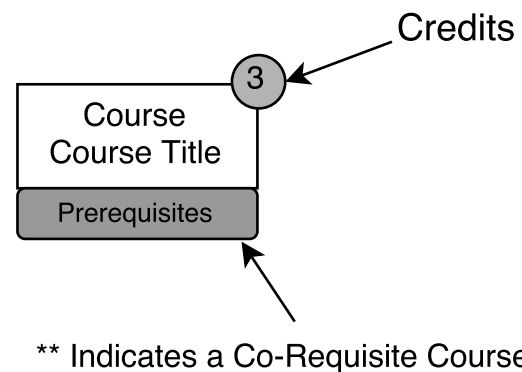
18 credits	MATH 4880 Probability and Statistics (3) MATH 2530	BME 3100 Signals (3) ECE 2001/2002 MATH 3550 BME 2000	BME 3300 Transport Fundamentals (3) BME 2000 & 3200 MATH 3550 PHYS 3410	THEO 1000 Theological Foundations (3) * BME 4970 Independent Research (3)	Advanced BME Elective (3)
16 credits	BME 3150 Biomedical Instrumentation (3) BME 3100 BIOL 2600	BME 3940 Junior Lab (1) BME 3100, 3300, & 3400	Advanced BME Elective (3)	Advanced BME Elective (3)	Advanced BME Elective (3)

Year 4

16 credits	BME 4950 Senior Project I (3) BME 3150 & 3840	Advanced BME Elective (3)	BME-Related Elective (4)	Humanities (3)	Non-Technical Elective (3)
15 credits	BME 4960 Senior Project II (3) BME 4950	Advanced BME Elective (3)	BME-Related Elective (3)	Cultural Diversity (3)	Social & Behavioral Science (3)

* Indicates Pass/Fail and No Credit toward Degree

Legend



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