

BIOMEDICAL ENGINEERING, B.S. (STLCC 2+SLU)

This program plan is part of the formal 2+SLU transfer agreement between St. Louis Community College and Saint Louis University.

Students in this program will satisfy the degree requirements published in the 2023-2024 academic catalog at St. Louis Community College and the 2025-2026 academic catalog at SLU. Students must complete all courses and transfer to SLU by the fall 2028 semester.

Students who plan to transfer to SLU after fall 2028 should contact a transfer admission counselor (<https://www.slu.edu/admission/transfer/contact.php>) to explore options.

Students who have been following a program plan from a previous year's academic catalog can reference their older program plan version by reviewing our previous catalogs (<https://catalog.slu.edu/previous-catalogs/>).

For additional information see the catalog entry for:

Biomedical Engineering, B.S. (<https://catalog.slu.edu/colleges-schools/science-engineering/biomedical/biomedical-engineering-bs/>)

Admission Requirements

- Students must complete all the courses outlined in the program plan unless an exception is approved by Saint Louis University.
- Students must complete an application for admission.
- Students may be subject to admission review under circumstances outlined in the admission policies (<https://catalog.slu.edu/academic-policies/office-admission/undergraduate/admission-policies/>).
- Students must present a 2.70 cumulative GPA at the time of transfer to SLU.
- This program plan is structured for a fall semester start at SLU. Students interested in starting the spring semester should contact SLU to explore this option.

Program Plan

Program Plans provide a guided pathway for students to earn an associate degree at their home institution and a bachelor's degree at Saint Louis University. Students may change the sequence in which they complete courses at their home institution. Students who complete a course that is not part of this Program Plan are encouraged to contact SLU to see if the course could be substituted.

St. Louis Community College Courses

Transfer Course	Transfer Course Title	Transfer Course Credits	Equivalent SLU Course	Equivalent SLU Credits
Year One				
Fall				
BIO 140	Principles of Biology I (MOTR BIOL 150L) **	5	BIOL 1240 and BIOL 1245	5

CHM 105	General Chemistry I (MOTR CHEM 150L) **	5	CHEM 1110 and CHEM 1115	5
ENG 101	College Composition I (MOTR ENGL 100)	3	ENGL 1500	3
MTH 210	Analytic Geometry and Calculus I **	5	MATH 1510	5
Credits		18		18
Spring				
CHM 106	General Chemistry II **	5	CHEM 1120 and CHEM 1125	5
COM 107	Public Speaking (MOTR COMM 110)	3	CMM 1200	3
ENG 102	College Composition II (MOTR ENGL 200)	3	ENGL 1900	3
MTH 220	Analytic Geometry and Calculus II **	5	MATH 1520	5
Credits		16		16
Year Two				
Fall				
MTH 230	Analytic Geometry and Calculus III **	5	MATH 2530	5
PHY 122	Engineering Physics I (MOTR PHYS 200L) **	5	PHYS 1610 and PHYS 1620	5
	Social & Behavioral Sciences - Civics Course	3	BME-Related General Elective	3

Choose 3 3
 credit hours
 from ART 109
 (ART 2000),
 ART 113
 (ART 2400),
 ART 115
 (ART 2300),
 ART 116
 (ART 2450),
 ART 165
 (ART 2600),
 ART 172
 (ART 2650),
 ENG 110
 (ENGL 3100),
 ENG 114
 (ENGL 3070),
 ENG 224
 (ENGL 3060),
 ENG 225
 (ENGL 3050),
 ENG 233
 (ENGL 3080),
 THT 108
 (THR 2510)

Credits	16	16
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Spring

PHL 101 Introduction to Philosophy (MOTR PHIL 100) 3 PHIL 1700 3

PHY 223 Engineering Physics II ** 5 PHYS 1630 and PHYS 1640 5

Choose from 3
 ANT 101
 (ANTH 1200),
 ANT 102
 (ANTH 2200),
 ECO 140
 (ECON 1900),
 ECO 151
 (ECON 1ELE*), ECO 152 (ECON 1ELE*),
 GEG 101
 (SOC 1180),
 MCM 101
 (CMM 2400),
 PSC 201
 (POLS 1600),
 PSY 200
 (PSY 1010),
 SOC 204
 (SOC 3430)

Choose from 3
 ENG 204
 (ENGL 3270),
 ENG 205

CORE 3400 3

(ENGL 3280),
 ENG 211
 (ENGL 3260),
 HST 115
 (HIST 1110),
 HST 128
 (HIST 1120),
 MUS 113
 (MUSC 1150),
 MUS 114
 (MUSC 1000),
 MUS 128
 (MUSC 1000),
 MUS 211
 (MUSC 3300),
 MUS 212
 (MUSC 3310),
 THT 101
 (THR 1500)

Social & Behavioral Sciences Course	3	BME-Related General Elective	3
Credits	17		17

St. Louis Community College Total Credits	67		67
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This program plan is structured for a Fall semester start at SLU and will take 5 semesters to complete. Students interested in starting the Spring semester should contact SLU to explore this option.

**This course must be passed with a grade of "C" or higher. SLU must review this course if it is transferred from another institution or testing service.

* ECO 151 (ECON 1ELE) and ECO 151 (ECON 1ELE) must be completed to transfer credit for ECON 1900 which fulfills SLU's CORE 3600 requirement.

Saint Louis University Courses

Course	Title	Credits
Year Three		
Fall		
BME 2000	Biomedical Engineering Computing	3
BME 2200	Applied Physiology for Engineers	3
BME 3200	Mechanics	3
MATH 3550	Differential Equations	3
SE 1700	Engineering Fundamentals	2
SE 1701	Engineering Fundamentals Studio	1
BME-Related General Elective		3
Credits		18
Spring		
CORE 1500	Cura Personalis 1: Self in Community	1
BME 3400	Materials Science	3
ECE 2001 & ECE 2002	Introduction to Electrical Engineering and Electrical Engineering Lab	4
MENG 1011	Prototyping	1

STAT 3850	Foundation of Statistics	3
Advanced Major Electives		6
Credits		18
Year Four		
Fall		
CORE 2500	Cura Personalis 2: Self in Contemplation	0
CORE 1600	Ultimate Questions: Theology	3
CORE 4500	Reflection-in-Action	0
BME 3100	Signals	3
BME 3300	Transport Fundamentals	3
BME 4400	Biomaterials (or Advanced Major Elective)	3
BME 4950	Senior Project I	3
CORE Requirement		3
Equity and Global Identities: Global Interdependence		
Equity and Global Identities: Identities in Context		
Credits		18
Spring		
Advanced Major Electives		9
BME 3150	Biomedical Instrumentation	3
BME 3840	Junior Lab	1
BME 4960	Senior Project II	3
Credits		16
Total Credits		70

Continuation Standards

- Students must maintain a minimum 2.00 GPA.
- If a "C-" is not earned on the second attempt of a BME course, the student will be dismissed from the major.

Contact Us

For additional questions, please contact:

Transfer Admission
314-977-2500
transfer@slu.edu