

MECHANICAL 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 2025-2026 academic catalog at St. Louis Community College and the 2026-2027 academic catalog at SLU. Students must complete all courses and transfer to SLU by the fall 2029 semester.

Students who plan to transfer to SLU after fall 2029 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:

Mechanical Engineering, B.S. (<https://catalog.slu.edu/colleges-schools/science-engineering/aerospace-mechanical/mechanical-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 and will take five semesters to complete. 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				
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
ESC 100	Engineering Computer Applications and Design	3	Elective	3
MTH 210	Analytic Geometry and Calculus I **	5	MATH 1510	5
		Credits		16
Spring				
ESC 101	Scientific Computer Programming	3	CSCI 1060	3
	Choose one: HST 137 (HIST 1ELE), HST 138 (HIST 1ELE), HST 101 (HIST 1600), HST 102 (HIST 1610)	3	CORE 3400	3
MTH 220	Analytic Geometry and Calculus II **	5	MATH 1520	5
PHY 122	Engineering Physics I (MOTR PHYS 200L) **	5	PHYS 1610 and PHYS 1620	5
		Credits		16
Year Two				
Fall				
ESC 200	Engineering Circuits I † **	4	ECE 2001 and ECE 2002	4
ESC 203	Engineering Statics **	3	MENG 2100X	3
MTH 230	Analytic Geometry and Calculus III **	5	MATH 2530	5
PSY 223	Engineering Physics II **	5	PHYS 1630 and PHYS 1640	5
		Credits		17
Spring				
ENG 102 or COM 107	College Composition II (MOTR ENGL 200) or Public Speaking (MOTR COMM 110)	3	ENGL 1900 or CMM 1200	3
ESC 204	Engineering Dynamics **	3	MENG 2150	3

ESC 205	Mechanics of Materials **	3	MENG 3105	3
ESC 207	Engineering Thermodynamics **	3	MENG 2310	3
MTH 240	Differential Equations **	3	MATH 3550	3
	Credits	15		15
	St. Louis Community College Total Credits	64		64

**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.

† ESC 200 (ECE 2001 and ECE 2002) is substituted for ECE 1100 and ECE 1200.

Notes: 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 program plan meets the program requirements for an A.S. in General STEM Transfer Studies at STLCC.
- Students may lighten their course load at SLU by completing any of the following courses prior to transferring: GE 122 (MENG 1000), EE 207 (MENG 2450), ENG 102 (ENGL 1900), COM 107 (CMM 1200), PHL 101 (PHIL 1700). Contact SLU for additional options.

Saint Louis University Courses

Course	Title	Credits
Year Three		
Fall		
CORE 1200 or CORE 1900	Eloquentia Perfecta 2: Oral and Visual Communication or Eloquentia Perfecta 1: Written and Visual Communication	3
CORE 1500	Cura Personalis 1: Self in Community	1
CORE 3600	Ways of Thinking: Social and Behavioral Sciences	3
MENG 1011	Prototyping	1
MENG 3010	Machine Design	3
MENG 3200	Fluid Dynamics	3
SE 1700 & SE 1701	Engineering Fundamentals and Engineering Fundamentals Studio	3
	Credits	17
Spring		
CORE 2500	Cura Personalis 2: Self in Contemplation	0
MENG 1000	Design Thinking	3
MENG 2450	Engineering Experimentation	3
MENG 3110	Linear Vibrations	3
MENG 3510X	Materials Science	3
MENG 4300	Heat Transfer	3
	Credits	15

Year Four

Fall

CORE 1600	Ultimate Questions: Theology	3
CORE 3500	Cura Personalis 3: Self in the World	1
CORE Requirement		3
Equity and Global Identities: Global Interdependence		
Equity and Global Identities: Identities in Context		
Equity and Global Identities: Dignity, Ethics, and a Just Society		
Math/Science Elective		3
MENG 3001	Mechanical Engineering Lab	1
MENG 4300	Heat Transfer	3
Technical Elective		3
Credits		17

Spring

MENG 2400	Mechatronics Systems Design	3
MENG 3111	Mechanics Laboratory	1
MENG 3600	Manufacturing Process	3
MENG 4024	Mechanical Systems Design	3
Technical Elective		3
Credits		13

Year Five

Fall

CORE 1700	Ultimate Questions: Philosophy	3
CORE 4500	Reflection-in-Action	0
MENG 4450	Programmable Logic Controllers and Robotics	3
Technical Elective		3
Technical Elective		3
Credits		12
Total Credits		74

Contact Us

For additional questions, please contact:

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