



UNIVERSITY OF MISSOURI – ST. LOUIS & ST. LOUIS COMMUNITY COLLEGE TRANSFER GUIDE



This Guide is intended for the use of students who plan on transferring from St. Louis Community College (STLCC) to the University of Missouri – St. Louis (UMSL) to pursue a Bachelor of Science in Mechanical Engineering through the UMSL/Washington University (WUSTL) Joint Engineering Program. This guide is intended for use under advisement of a UMSL Transfer Coordinator. Students also have the option to pursue an [Associate in Science](#) at STLCC prior to transferring to UMSL, though it is not the recommended option.

The UMSL/WUSTL Joint Engineering Program offers UMSL students the opportunity to pursue a variety of engineering degree options while taking advantage of the resources, facilities, and faculty provided at WUSTL. The upper-division engineering courses are offered in the evenings and on Saturdays on the WUSTL campus and are taught by WUSTL faculty. This schedule permits students to co-op during the day at local engineering firms. Tuition for the engineering courses is the UMSL tuition rate with a small additional fee. Students of this program are also able to utilize student services provided by both institutions. For more information on the UMSL/WUSTL Joint Engineering Program, please visit their [website](#).

PRE-ENGINEERING SEQUENCE

The following requirements must be completed for a student to be eligible to take formal Engineering courses through the UMSL/WUSTL Joint Engineering Program. These requirements may be completed at either UMSL or STLCC and included here are any STLCC courses that fulfill corresponding requirements. Unless stated otherwise, all pre-engineering courses must be completed with a C- grade or higher to fulfill the requirements of this program.

- A student must earn a 2.75 GPA over this sequence of pre-engineering courses.
- Chemistry - CHM 105 General Chemistry I (MOTR CHEM 150L) (5)
- Calculus I, completed a C grade or higher - MTH 210 Analytic Geometry & Calculus I (5)
- Calculus II - MTH 220 Analytic Geometry & Calculus II (5)
- Calculus III - MTH 230 Analytic Geometry & Calculus III (5)
- Differential Equations - MTH 240 Differential Equations (3)
- Calculus-Based Physics I - PHY 122 Engineering Physics I (MOTR PHYS 200L) (5)
- Calculus-Based Physics II - PHY 223 Engineering Physics II (5)
- Engineering-Statics - ESC 203 Engineering Mechanics I (3)
- Engineering-Dynamics - ESC 204 Engineering Mechanics II (3)

GENERAL EDUCATION

The following are the general education requirements of the UMSL/WUSTL Joint Engineering Program. It is recommended that the student complete these requirements while completing those above in the pre-engineering sequence. Included here are any STLCC courses that fulfill corresponding requirements.

- First-Year Writing - Complete 1 course from the following with C- grade or higher:
 - ENG 101 College Comp I (MOTR ENGL 100)(3)
 - ENG 102 College Comp II (MOTR ENGL 200) (3)
- Engineering Ethics - This course must be completed at UMSL.
- Philosophy of Science - This course must be completed at UMSL.

BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING

- American History - Complete 1 course from the following:
 - HST 101 United States History to 1865 (MOTR HIST 101) (3)
 - HST 102 US History 1865 to the Present (MOTR HIST 102) (3)

 - Cultural Diversity Social Science - Complete 1 course from the following:
 - ANT 102 Introduction to Cultural Anthropology
(MOTR ANTH 201) (3)

 - Additional Social Science – Complete 2 courses from CORE 42/MOTR Social and Behavioral Sciences list. Other courses can also be used, please check with UMSL advisor for other options.
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For any questions regarding this guide please contact the UMSL Office of Transfer Services at (314) 516-5162.