BACHELOR OF SCIENCE IN CIVIL ENGINEERING

UNIVERSITY OF MISSOURI ST. LOUIS
SOUTHWESTERN ILLINOIS COLLEGE
TRANSFER GUIDE

This Guide is intended for the use of students who plan on transferring from Southwestern Illinois College (SWIC) to the University of Missouri – St. Louis (UMSL) to pursue a Bachelor of Science in Civil Engineering through the UMSL/Washington University (WUSTL) Joint Engineering Program. This guide is intended for use under advisement of a UMSL Student Recruitment Specialist.

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 evening and on Saturdays on the WUSTL campus and are taught by the 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 SWIC and included here are any SWIC 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 – CHEM 105 General Chemistry I (5)
☐ Calculus I, completed with a C grade or higher** – MATH 203 Analytic Geometry & Calculus I (5)
☐ Calculus II - MATH 204 Analytic Geometry & Calculus II (5)
☐ Calculus III - MATH 205 Analytic Geometry & Calculus III (5)
☐ Differential Equations - MATH 290 Differential Equations (3)
☐ Calculus-Based Physics I – PHYS 204 Physics-Mechanics (4)
☐ Calculus-Based Physics II – PHYS 205 Physics-Heat, Elec, & Magnetism (4)
☐ Engineering-Statics – ENGR 263 Analytical Mechanics - Statics (3)
☐ Engineering-Dynamics – ENGR 264 Analytical Mechanics-Dynamics (3)
☐ ES 102 Physical Geology (4)

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 SWIC courses that fulfill corresponding requirements.

☐ First-Year Writing – Complete the following course with a C- or better
  ENG 101 Rhetoric and Composition I (3)
☐ Engineering Ethics - This course must be completed at UMSL
☐ Philosophy of Science – This course must be completed at UMSL.
☐ American History- Complete 1 course from the following:
  HIST 180 U.S. History to 1865 (3)
  HIST 181 U.S. History, 1865 to the Present (3)
☐ Cultural Diversity Social Science – ANTH 150 Cultural Anthropology (3)
☐ Additional Social Science – Complete 2 additional Social Science courses *If additional social science course is SOC the final must be from another area of study

*Students seeking to major in engineering are first designated as ‘Undeclared with an interest in Engineering majors' until they have completed Math 1800 Analytical Geometry & Calculus I. Upon successful completion of

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**Math 1800 with a grade of C or better, students will be allowed to declare pre-engineering as their major. Math 1800 must be completed successfully within two attempts.**

For questions about this transfer guide please call the Office of Admissions at 314-516-5451

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