

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING



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 Electrical 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 (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 (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 Composition I (3)
 - ENG 102 College Composition II (3)
- Engineering Ethics - This course must be completed at UMSL.
- Philosophy of Science - This course must be completed at UMSL.

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

- Cultural Diversity Social Science - Complete 1 course from the following:
 - ANT 102 Introduction to Cultural Anthropology (3) IDS 103 Topics in Arab Culture (3)
 - ANT 202 Ethnography: North American Indians (3) IDS 112 Sex Trafficking in Global Perspective (3)

- □ Additional Social Science - Complete 2 of the following courses in addition to those already completed for above requirements:
 - Any **ANT** Courses
 - Any **COM** Courses (Exceptions: Not COM 105 or 111)
 - Any **CRJ** Courses (Exceptions: Not *CRJ 209*, *CRJ 211*, *CRJ 214*, *CRJ 215*, and *CRJ 216*)
 - Any **ECO** Courses
 - Any **HMS** Courses
 - Any **MCM** Courses (Exceptions: *Not MCM 110, 112, 115, 131, 132, 201, 202, 209, 211, 215, 219, 221*)
 - Any **PSC** Courses
 - Any **PSY** Courses
 - Any **SOC** Courses
 - Any **WMS** Courses

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| <ul style="list-style-type: none"> BUS 104 Introduction to Business Administration(3) BLW 201 Legal Environment of Business (3) FIN 100 Personal Finance (3) GEG 101 Regional Geography (3) GEG 106 World Geography (3) | <ul style="list-style-type: none"> IDS 102 Urban Legends and American Society (3) IDS 103 Topics in Arab Culture (3) IDS 112 Sex Trafficking in Global Perspective (3) IDS 116 Historical, Social, and Cultural Constructions of Youth (3) IDS 117 Sport and Society (3) |
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For any questions regarding this guide please contact the UMSL Office of Transfer Services at (314) 516-5162.