This Guide is intended for the use of students who plan on transferring from Lewis & Clark Community College (L&C) to the University of Missouri – St. Louis (UMSL) to pursue a Bachelor of Science through the UMSL/Washington University (WUSTL) Joint Engineering Program. This Program offers three degree options: Civil Engineering, Electrical Engineering, or Mechanical Engineering. Unless specified below, the courses recommended in this guide will be applicable to all of these Emphases. This guide is intended for use under advisement of a UMSL Transfer Coordinator. Students also have the option to pursue an Associate in Engineering Science at L&C prior to transferring to UMSL, though it is not the recommended option, as it requires the student to complete additional coursework that is not applicable to their degree.

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 L&C and included here are any L&C 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 141 General Chemistry I (5)
- Calculus I, completed a C grade or higher - MATH 171 Calculus & Analytics Geometry I (5)
- Calculus II - MATH 172 Calculus & Analytics Geometry II (5)
- Calculus III - MATH 271 Calculus & Analytics Geometry III (5)
- Differential Equations - MATH 272 Differential Equations (3)
- Calculus-Based Physics I - PHYS 141 General Physics I (5)
- Calculus-Based Physics II - PHYS 142 General Physics II (5)
- Engineering-Statics - PHYS 241 Applied Mechanics-Statistics (3)
- Engineering-Dynamics - PHYS 242 Applied Mechanics-Dynamics (3)
- Geology, Civil Engineering Students Only - PHSC 131 Physical Geography (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 L&C courses that fulfill corresponding requirements.

- First-Year Writing - ENG 132 First-Year English II (3)
- Engineering Ethics - This course must be completed at UMSL.

The information in this Transfer Guide is in accordance with the published 2017-2018 Course Catalogs of both UMSL and L&C.
**BACHELOR OF SCIENCE IN ENGINEERING**

- **Philosophy of Science** - This course must be completed at UMSL.
- **American History** - Complete 1 course from the following:
  - HIST 231 American Republic: Beginnings-1877 (3)
  - HIST 232 American Nation 1877-Present (3)
- **Cultural Diversity Social Science** - Complete 1 course from the following:
  - ANTH 232 Cultural Anthropology (3)
  - ANTH 265 Archeology in the Field (3)
  - POLS 235 Comparative Political Institutions (3)
- **Additional Social Sciences** - Complete 2 of the following courses in addition to those already completed for above requirements:
  - Any ANTH Courses
  - Any CRMJ Courses (Exceptions: Not CRMJ 133, 160, 265, and 271)
  - Any ECON Courses
  - Any GEOG Courses
  - Any HUMS Courses
  - Any POLS courses
  - Any PSYC Courses (Exceptions: Not PSYC 132 and PSYC 200)
  - Any SOCI Courses
  - BUSN 131 Introduction to Modern Business (3)
  - BUSN 141 Business and the Legal Environment (3)
  - BUSN 187 Financial Investments
  - MCOM 125 Introduction to Broadcast Operations (3)
  - MCOM 132 Introduction to Mass Communication (3)
  - MCOM 145 Broadcast Writing (3)
  - SPCH 131 Public Speaking (3)
  - SPCH 151 Interpersonal Communication (3)
  - SPCH 201 Small Group Communication (3)
  - SPCH 203 Intro-Organizational Communication (3)
  - SPCH 213 Introduction to Public Relations (3)

For any questions regarding this guide please contact the UMSL Office of Transfer Services at (314) 516-5162.

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