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 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 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)

**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.
- Philosophy of Science - This course must be completed at UMSL.

The information in this Transfer Guide is in accordance with the published 2016-2017 Course Catalogs of both UMSL and L&C.
**Bachelor of Science in Electrical Engineering**

- **American History** - Complete 1 course from the following:
  - CRMJ 131 Intro to American Criminal Justice (3)
  - HIST 141 African American History (3)
  - HIST 231 American Republic: Beginnings-1877 (3)
  - HIST 232 American Nation 1877-Present (3)
  - POLS 131 American Government (3)
  - POLS 132 State and Local Government (3)

- **Humanities** - Complete 1 of the following courses:
  - Any **DANC** Courses
  - Any **HUMN** Courses except HUMN 241
  - Any **LITT** Courses
  - Any **MUSI** Courses (Exceptions: Not MUSI 154, 155, 159, 179, and 259)
  - ART 130 Introduction to the Visual Arts (3)
  - ART 140 The Art of Film (3)
  - ART 141 History of Art I (3)
  - ART 142 History of Art II (3)
  - ART 146 Women in Art (3)
  - ART 153 Non-Western Art (3)
  - DRAM 130 Appreciation of Theatre Art (3)
  - DRAM 131 Fundamentals of Acting (3)
  - ENGL 261 Creative Writing I (3)
  - ENGL 262 Creative Writing II (3)

- **Cultural Diversity Social Science** - Complete 1 course from the following:
  - ANTH 232 Cultural Anthropology (3)
  - ANTH 265 Archeology in the Field (3)
  - ART 153 Non-Western Art (3)
  - HIST 138 History of Latin America (3)
  - HUMN 231 Comparative Religion (3)
  - LITT 233 Literature of Non-Western Cultures (3)
  - MUSI 134 Non-Western Music (3)
  - PHIL 132 Eastern Philosophy (3)
  - POLS 235 Comparative Political Institutions (3)

- **Additional Social Science** - Complete 1 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 **HIST** 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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