UNIVERSITY OF MISSOURI – ST. LOUIS & EAST CENTRAL COLLEGE TRANSFER GUIDE

This Guide is intended for the use of students who plan on transferring from East Central College (ECC) 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.

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 111 General Chemistry I Lecture & Lab (5)
- Calculus I, completed a C grade or higher - MTH 190 Analytic Geometry & Calculus I (5)
- Calculus II - MTH 210 Analytic Geometry & Calculus II (5)
- Calculus III - MTH 220 Analytic Geometry & Calculus III (5)
- Differential Equations - MTH 245 Differential Equations (3)
- Calculus-Based Physics I - PHY 211 General Physics I Lecture (3) and PHY 212 General Physics I Lab (2)
- Calculus-Based Physics II - PHY 221 General Physics II Lecture (3) and PHY 222 General Physics II Lab (2)
- Engineering-Dynamics - EGR 214 Engineering Mechanics-Dynamics (3)
- Geology, Civil Engineering Student Only - GEO 101 Intro Phys Geo Lec (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 102 English Comp II (3)
  - ENG 115 Honors English Comp 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 2017-2018 Course Catalogs of both UMSL and ECC.
BACHELOR OF SCIENCE IN ENGINEERING

☐ American History - Complete 1 course from the following:
   HST 101 U.S. History to 1865 (3)
   HST 102 US History 1865-1945 (3)

☐ Cultural Diversity Social Science - Complete 1 course from the following:
   ANT 110 Introduction Cultural Anthropology (3)
   PSC 202 Introduction to Comparative Politics (3)

☐ ☐ Additional Social Sciences - Complete 2 of the following courses in addition to those already completed
   for above requirements:
   Any ANT Courses
   Any CRJ Courses (Exceptions: Not CRJ 204)
   Any ECO Courses
   Any GRY Courses
   Any PSC Courses
   Any PSY Courses
   Any SOC Courses
   BUS 110 Introduction to Business (3)        COM 110 Public Speaking (3)
   BUS 181 Business Communications (3)        MCM 101 Intro to Mass Media Communication (3)
   BUS 234 Legal Environment of Business (3)  MCM 225 News Writing (3)
   COM 101 Oral Communications (3)

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

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