This Guide is intended for the use of students who plan on transferring from Jefferson College (JeffCo) to the University of Missouri – St. Louis (UMSL) to pursue a Bachelor of Science in Mechanical Engineering through the UMSL/Washington University (WUSTL) Joint Engineering Program. This guide is intended for use under advisement of a UMSL Transfer Coordinator.

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 JeffCo and included here are any JeffCo 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 (5)
☐ Calculus I, completed a C grade or higher - MTH 180 Calculus I (5)
☐ Calculus II - MTH 185 Calculus II (5)
☐ Calculus III - MTH 201 Calculus III (5)
☐ Differential Equations - MTH 205 Differential Equations (3)
☐ Calculus-Based Physics I - PHY 223 General Physics I (5)
☐ Calculus-Based Physics II - PHY 224 General Physics II (5)
☐ Engineering-Statics - EGR 228 Engineering Mechanics-Statics (3)
☐ Engineering-Dynamics - EGR 250 Engineering 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 JeffCo courses that fulfill corresponding requirements.

☐ First-Year Writing - Complete 1 course from the following with C- grade or higher:
  ENG 101 English Composition I (3)
  ENG 102 English Composition II (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:
  HST 103 U.S. History I to Reconstruction (3)
  HST 104 U.S. History II from Reconstruction (3)

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

☐ Cultural Diversity Social Science - Complete 1 course from the following:
   HST 210 Asian Civilization (3)
   SOC 115 Cultural Anthropology (3)

☐ Additional Social Science - Complete 1 of the following courses in addition to those already completed for above requirements:
   Any CRJ Courses (Exceptions: Not CRJ 150, 212, 215, 220, and 222)
   Any ECO Courses
   Any GEO Courses
   Any HST Courses
   Any PSC Courses (Exceptions: Not PSC 290)
   Any PSY Courses (Exceptions: Not PSY 120)
   Any SOC Courses
   Any SWK Courses

   BUS 101 Introduction to Business (3)       COM 150 Introduction to Television Production (3)
   COM 110 Public Speaking (3)              COM 250 Television Production II (3)
   COM 130 Intro. to Mass Media Communications (3)

For any questions regarding this guide please contact Sue Bateman at batemans@umsl.edu.