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 2016/2017 Course Catalogs of both UMSL and JeffCo.
 Humanities - Complete 1 of the following courses in addition to those already completed for above requirements:

- Any ENG Courses numbered 104 and Above (Exceptions: Not ENG 110, 111, 143, 210 or 211)
- Any HUM Courses
- Any MSA Courses numbered 171 and Above
- Any MSC Courses (Exceptions: Not MSC 105)
- Any THT Courses

  - ART 101 Art Appreciation (3)
  - ART 103 Survey of Art I (3)
  - ART 105 Survey of Art II (3)

- Any HUM Courses
- Any MSA Courses numbered 171 and Above
- Any MSC Courses (Exceptions: Not MSC 105)
- Any THT Courses

- ART 107 Modern Art (3)
- FRN 253 French Reading (3)
- SPN 253 Spanish Reading (3)

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

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