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 105 General Chemistry I (MOTR CHEM 150L) (5)
☐ Calculus I, completed a C grade or higher - MTH 210 Analytic Geometry & Calculus I (5)
☐ Calculus II - MTH 220 Analytic Geometry & Calculus II (5)
☐ Calculus III - MTH 230 Analytic Geometry & Calculus III (5)
☐ Differential Equations - MTH 240 Differential Equations (3)
☐ Calculus-Based Physics I - PHY 122 Engineering Physics I (MOTR PHYS 200L) (5)
☐ Calculus-Based Physics II - PHY 223 Engineering Physics II (5)
☐ Engineering-Statics - ESC 203 Engineering Mechanics I (3)
☐ Engineering-Dynamics - ESC 204 Engineering Mechanics II (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 101 College Comp I (MOTR ENGL 100)(3)
   ENG 102 College Comp II (MOTR ENGL 200) (3)
☐ Engineering Ethics - This course must be completed at UMSL.
☐ Philosophy of Science - This course must be completed at UMSL.
BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING

☐ American History - Complete 1 course from the following:
   HST 101 United States History to 1865 (MOTR HIST 101) (3)
   HST 102 US History 1865 to the Present (MOTR HIST 102) (3)

☐ Cultural Diversity Social Science - Complete 1 course from the following:
   ANT 102 Introduction to Cultural Anthropology (MOTR ANTH 201) (3)
   ANT 202 Ethnography: North American Indians (3)

☐ ☐ Additional Social Science - Complete 2 of the following courses in addition to those already completed for above requirements:
   Any ANT Courses
   Any COM Courses (Exceptions: Not COM 105 or 111)
   Any CRJ Courses (Exceptions: Not CRJ 209, CRJ 211, CRJ 214, CRJ 215, and CRJ 216)
   Any ECO Courses
   Any HMS Courses
   Any MCM Courses (Exceptions: Not MCM 110, 112, 115, 131, 132, 201, 202, 209, 211, 215, 219, 221)
   Any PSC Courses
   Any PSY Courses
   Any SOC Courses
   Any WMS Courses
   BUS 104 Introduction to Business Administration (3)
   BLW 201 Legal Environment of Business (3)
   FIN 100 Personal Finance (3)
   GEG 101 Regional Geography (3)
   GEG 106 World Geography (3)
   IDS 102 Urban Legends and American Society (3)
   IDS 103 Topics in Arab Culture (3)
   IDS 112 Sex Trafficking in Global Perspective (3)
   IDS 116 Historical, Social, and Cultural Constructions of Youth (3)
   IDS 117 Sport and Society (3)

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

The information in this Transfer Guide is in accordance with the published 2018-2019 Course Catalogs of both UMSL and STLCC.