This Guide is intended for the use of students who plan on transferring from Southwestern Illinois College (SWIC) 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 SWIC and included here are any SWIC 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 105 General Chemistry I (5)
- Calculus I, completed a C grade or higher - MATH 203 Analytic Geometry & Calculus I (5)
- Calculus II - MATH 204 Analytic Geometry & Calculus II (5)
- Calculus III - MATH 205 Analytic Geometry & Calculus III (5)
- Differential Equations - MATH 290 Differential Equations (3)
- Calculus-Based Physics I - PHYS 204 Physics – Mechanics (4)
- Calculus-Based Physics II - PHYS 205 Physics – Heat, Elec & Magnetism (4)
- Engineering-Statics - ENGR 263 Analytical Mechanics-Statics (3)
- Engineering-Dynamics - ENGR 264 Analytical 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 SWIC courses that fulfill corresponding requirements.

- First-Year Writing - Complete 1 course from the following with C- grade or higher:
  - ENG 101 Rhetoric & Composition I (3)
  - ENG 102 Rhetoric & 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:
  - HIST 180 U.S. History to 1865 (3)
  - HIST 181 U.S. History, 1865 to the Present (3)

The information in this Transfer Guide is in accordance with the published 2015-2016 Course Catalogs of both UMSL and SWIC.
Communication Proficiency - Complete 1 course from the following:

- SPCH 151 Fundamentals of Public Speaking (3)
- SPCH 155 Interpersonal Communication (3)
- THEA 256 Theatre Acting (3)

Humanities - Complete 1 of the following courses in addition to those already completed for above requirements:

- Any LIT Courses
- Any MUS Courses (Exceptions: Not MUS 154, 155, 201, 250, 251, 252, and 255)
- Any PHIL Courses
- Any THEA Courses

- ART 101 Art Appreciation (3)
- ART 102 Art Survey: Modern to Contemporary (3)
- ART 103 Survey of Non-Western Art (3)
- ART 104 Art History I: Prehistoric-Gothic (3)
- ART 105 Art History II: Renaissance-Modern (3)
- ART 106 History of Photography (3)
- ART 110 Women in Art – Medieval to Modern (3)

- ENG 107 Creative Writing (3)
- ENG 207 Advanced Creative Writing (3)
- FREN 202 Intermediate French II (4)
- GERM 202 Intermediate German II (4)
- SPAN 202 Intermediate Spanish II (4)
- SPAN 211 Conversational Spanish I (3)

Cultural Diversity Social Science - Complete 1 course from the following:

- ANTH 150 Cultural Anthropology (3)
- ANTH 210 Native American Cultures (3)
- ANTH 250 Introduction to Archaeology (3)
- HIST 114 Latin American History (3)
- HIST 115 Mid-East History (3)
- HIST 117 African History (3)
- HIST 118 Asian History (3)

Additional Social Science - Complete 1 of the following courses in addition to those already completed for above requirements:

- Any ANTH Courses
- Any ECON Courses
- Any HIST Courses
- Any HMS Courses
- Any POLS Courses
- Any PSYC Courses (Exceptions: Not PSYC 200 and PSYC 252)
- Any SOC Courses

- AOJ 100 Intro to Administration of Justice (3)
- AOJ 103 Introduction to Corrections (3)
- AOJ 105 Police Administration (3)
- AOJ 153 Juvenile Delinquency (3)
- AOJ 155 Community Policing (3)
- AOJ 156 Issues in Criminal Justice (3)
- AOJ 160 Criminology (3)
- AOJ 203 Criminal Law & Admin. of Justice (3)
- AOJ 251 Rules of Criminal Evidence (3)
- AOJ 252 Organized Crime (3)
- AOJ 261 Probation and Parole (3)
- AOJ 299 Spec Topics In Admin of Justice (1-4)
- GEOG 151 Geography of the United States and Canada (3)
- GEOG 152 World Regional Geography (3)
- GEOG 202 Economic Geography (3)
- MGMT 117 Personal Finance (3)

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

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