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 Civil 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)
- Geology - ES 102 Physical Geology (4)

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)

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☐ Humanities - Complete 1 of the following courses in addition to those already completed for above requirements:
  Any ART Courses (Exceptions: Not ART 230, 231, 290, 291)
  Any HIST Courses
  Any LIT Courses
  Any MUS Courses (Exceptions: Not MUS 154, 155, 201, 250, 251, 252, and 255)
  Any THEA Courses
  ENG 107 Creative Writing (3)  FILM 299 Special Topics in Film Study (3)
  ENG 207 Advanced Creative Writing (3)  FREN 202 Intermediate French II (4)
  ENG 299 Special Topics in English (1-4)  GERM 202 Intermediate German II (4)
  FILM 115 Film Appreciation (3)  SPAN 202 Intermediate Spanish II (4)
  FILM 205 Screenwriting II (3)  SPAN 211 Conversational Spanish I (3)
  FILM 215 Film History (3)  SPCH 220 American Playhouse (3)
  FILM 225 Film & Literature (3)

☐ Cultural Diversity Social Science - Complete 1 course from the following:
  ANTH 150 Cultural Anthropology (3)  HIST 114 Latin American History (3)
  ANTH 210 Native American Cultures (3)  HIST 115 Mid-East History (3)
  ANTH 250 Introduction to Archaeology (3)  HIST 117 African 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 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 252 Organized Crime (3)
  AOJ 103 Introduction to Corrections (3)  AOJ 261 Probation and Parole (3)
  AOJ 105 Police Administration (3)  AOJ 299 Spec Topics In Admin of Justice (1-4)
  AOJ 153 Juvenile Delinquency (3)  GEOG 151 Geography of the United States and Canada (3)
  AOJ 155 Community Policing (3)  GEOG 152 World Regional Geography (3)
  AOJ 160 Criminology (3)  GEOG 202 Economic Geography (3)
  AOJ 203 Criminal Law & Admin. of Justice (3)  MGMT 117 Personal Finance (3)
  AOJ 251 Rules of Criminal Evidence (3)

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

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