This Guide is intended for the use of students who plan on transferring from Mineral Area College (MAC) 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 MAC and included here are any MAC 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 - PHS 1350 General Chemistry I (5)
☐ Calculus I, completed a C grade or higher - MAT 1650 Analytic Geometry and Calculus I (5)
☐ Calculus II - MAT 2150 Analytic Geometry and Calculus II (5)
☐ Calculus III - MAT 2250 Analytic Geometry and Calculus III (5)
☐ Differential Equations - MAT 2330 Differential Equations (3)
☐ Calculus-Based Physics I - PHS 2230 General Physics I (4)
☐ Calculus-Based Physics II - PHS 2240 General Physics II (4)
☐ Engineering-Statics - EGN 2130 Engineering Mechanics-Statics (3)
☐ Engineering-Dynamics - EGN 2230 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 MAC courses that fulfill corresponding requirements.

☐ First-Year Writing - ENG 1340 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:
  HIS 1230 American History I (3)
  HIS 1240 American History II (3)

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**BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING**

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

- Any **DAN** Courses
- Any **ENG** Courses numbered 1360 and Above (Exceptions: Not **ENG 1440, 1670, 2150, and 2520**)
- Any **MSC** Courses (Exceptions: Not **MSC 1651, 1851, 2043, 2044, 2473, and 2474**)
- Any **THE** Courses (Exceptions: Not **THE 1040**)

  - ART 1400 History of Western Art (2)
  - ART 1490 History of Art I (3)
  - ART 1500 History of Art II (3)
  - ART 1510 History of Art III (3)
  - ART 1530 Introduction to Humanities (3)
  - IDS 1050 Interdisciplinary Studies (3)
  - COM 1060 Introduction to Cinema (3)

☐ Cultural Diversity Social Science - **SOC 1540 Introduction to Cultural Anthropology (3)**

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

- Any **GEO** Courses
- Any **HIS** Courses (Exceptions: Not **HIS 135**)
- Any **POS** Courses
- Any **PSY** Courses (Exceptions: Not **PSY 1040, 1060, and 1160**)
- Any **SOC** Courses (Exceptions: Not **SOC 1060**)
- Any **SWK** Courses

  - BUS 1330 Survey of Economics (3)
  - BUS 2530 Legal Environment of Business (3)
  - BUS 2930 Principles of Macroeconomics (3)
  - BUS 2940 Principles of Microeconomics (3)
  - COM 1000 Introduction to Mass Media (3)
  - COM 1020 Introduction to Broadcasting (3)
  - COM 2200 T.V. Production (3)
  - CRJ 1100 Introduction to Criminal Justice (3)
  - CRJ 1400 Criminal Law (3)
  - CRJ 1440 Criminal Courts-Process and Issues (3)
  - CRJ 1520 Criminology (3)
  - CRJ 1540 Criminal Procedure (3)

- CRJ 1600 Juvenile Justice System (3)
- CRJ 1710 Community Policing/Problem Solving (3)
- CRJ 1800 Introduction to Corrections (3)
- CRJ 1820 Corrections in America (3)
- CRJ 1900 Police Administration (3)
- CRJ 2320 Admin. of Correctional Service (3)
- CRJ 2340 Concepts of Community Corrections (3)
- CRJ 2380 Probation and Parole in America (3)
- CRJ 1440 Public Speaking (3)
- MFL 1290 Culture of French Speaking World (3)
- ENG 1670 Interpersonal Communication (3)
- ENG 1670 Interpersonal Communication (3)
- IDS 1050 Interdisciplinary Studies (3)

For questions please contact Tami Davenport at (575) 518-2324 or at davenportt@umsl.edu.

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