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)

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

The information in this Transfer Guide is in accordance with the published 2017-2018 Course Catalogs of both UMSL and MAC.
The information in this Transfer Guide is in accordance with the published 2017-2018 Course Catalogs of both UMSL and MAC.

**Additional Social Science - Complete 2 of the following courses in addition to those already completed for above requirements:**

- Any GEO Courses
- 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) | CRJ 1600 Juvenile Justice System (3) |
| BUS 2530 Legal Environment of Business (3) | CRJ 1710 Community Policing/Problem Solving(3) |
| BUS 2930 Principles of Macroeconomics (3) | CRJ 1800 Introduction to Corrections (3) |
| BUS 2940 Principles of Microeconomics (3) | CRJ 1820 Corrections in America (3) |
| COM 1000 Introduction to Mass Media (3) | CRJ 1900 Police Administration (3) |
| COM 1020 Introduction to Broadcasting (3) | CRJ 2320 Admin. of Correctional Service (3) |
| COM 2200 T.V. Production (3) | CRJ 2340 Concepts of Community Corrections (3) |
| CRJ 1100 Introduction to Criminal Justice (3) | CRJ 2380 Probation and Parole in America (3) |
| CRJ 1400 Criminal Law (3) | ENG 1440 Public Speaking (3) |
| CRJ 1440 Criminal Courts-Process and Issues (3) | ENG 1670 Interpersonal Communication (3) |
| CRJ 1520 Criminology (3) | IDS 1050 Interdisciplinary Studies (3) |
| CRJ 1540 Criminal Procedure (3) | MFL 1290 Culture of French Speaking World (3) |

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