This Guide is intended for the use of students who plan on transferring from Jefferson College (JeffCo) with a completed Associate in Arts to the University of Missouri – St. Louis (UMSL) to pursue a Bachelor of Science in Mechanical Engineering.

For more information on UMSL’s Bachelor of Science in Mechanical Engineering, please visit our online Course Catalog.

The following are the requirements of the JeffCo Associate in Arts degree program as they are recommended for students intending to continue on into UMSL’s Bachelor of Science in Mechanical Engineering. Completing these requirements as they are recommended here will maximize the transferability of a student’s coursework toward their UMSL Bachelor’s degree. Further details of this Associate’s degree program, as well as comprehensive lists of courses that satisfy each General Education component, may be found within the JeffCo course catalog or may be obtained through a JeffCo advisor.

This guide is intended for use under advisement of a JeffCo Academic Advisor or UMSL Transfer Representative and is not considered to be substitution of such advisement.

I. COMMUNICATIONS 9 Hours
- ENG 101 English Composition I (3)
- ENG 102 English Composition II (3)
- Complete 1 of the Following Courses:
  - COM 100 Fundamentals of Communication (3)
  - COM 110 Public Speaking (3)

II. HUMANITIES 9 Hours
- Complete 1 of the Following Courses to satisfy UMSL's Cultural Diversity Requirement:
  - HST 210 Asian Civilization (3)
  - MSC 137 World Music (3)
  - PHL 201 World Religions (3)
- Complete 2 additional Courses in the Humanities from at least 2 Humanities Disciplines:
  - Humanities Course: _________________
  - Humanities Course: _________________

III. MATHEMATICS AND NATURAL SCIENCES
Mathematics 3 Hours
- Complete the following courses:
  - MTH 141 Precalculus (5)
  - (Students may opt to take MTH 133 Trig (3) and MTH 134 College Algebra (3) in lieu of MTH 141)
  - Any Higher Level MTH Course: _________________

Natural Sciences 7 Hours
- Complete 2 Courses, 1 in the Biological Sciences and 1 in the Physical Science, at least 1 Course with a Laboratory Component:

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Biological Science Course: ________________________
CHM 111 General Chemistry I (5)

IV. SOCIAL AND BEHAVIORAL SCIENCES
U.S. and Missouri Constitutions  6 Hours
☐ ☐ Complete 2 Courses, 1 in Constitution studies and 1 in American History or Government:
Constitution Course: ________________________
American History or Government Course: ________________________

Social and Behavioral Sciences  6 Hours
☐ ☐ Complete 2 Courses in the Social and Behavioral Sciences:
Social and Behavioral Sciences Course: ________________________
Social and Behavioral Sciences Course: ________________________

V. GENERAL EDUCATION OPTION  2 HOURS
☐ PHY 111 Elementary College Physics (5)

VI. COMPUTER LITERACY  3 HOURS
☐ CIS 125 Computer Concepts and Applications (3)

VII. FIRST YEAR EXPERIENCE  1 HOUR
☐ Complete 1 First-Year Experience Course: ________________________

VIII. ELECTIVES  16 HOURS
☐ MTH 180 Calculus I (5)
☐ MTH 185 Calculus II (5)
☐ MTH 201 Calculus III (5)
☐ MTH 205 Differential Equations (3)
☐ PHY 112 Elementary College Physics (5)

Students that plan to transfer to UMSL to pursue a Bachelor of Science in Mechanical Engineering but do not
wish to complete an Associate's degree at JeffCo should refer to focus on completing the Highlighted Courses
above in conjunction with those outlined in the JeffCo General Education Transfer Guide.

For any questions regarding this guide please contact Sue Bateman at batemans@umsl.edu.

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