This Guide is intended for the use of students who plan on transferring from St. Louis Community College (STLCC) 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. Students also have the option to pursue an Associate in Science at STLCC prior to transferring to UMSL, though it is not the recommended option.

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 STLCC and included here are any STLCC 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 - CHM 105 General Chemistry I (5)
- Calculus I, completed a C grade or higher - MTH 210 Analytic Geometry & Calculus I (5)
- Calculus II - MTH 220 Analytic Geometry & Calculus II (5)
- Calculus III - MTH 230 Analytic Geometry & Calculus III (5)
- Differential Equations - MTH 240 Differential Equations (3)
- Calculus-Based Physics I - PHY 122 Engineering Physics I (5)
- Calculus-Based Physics II - PHY 223 Engineering Physics II (5)
- Engineering-Statics - ESC 203 Engineering Mechanics I (3)
- Engineering-Dynamics - ESC 204 Engineering Mechanics II (3)
- Geology - Complete 1 course from the following:
  - GEG 103 Physical Geography (3)
  - GEO 100 Earth Science (3)
  - GEO 111 Physical Geology (5)

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 STLCC courses that fulfill corresponding requirements.

- First-Year Writing - Complete 1 course from the following with C- grade or higher:
  - ENG 101 College Composition I (3)
  - ENG 102 College Composition II (3)
  - ENG 104 Honors College Composition I (3)
  - ENG 105 Honors College Composition II (3)
- Engineering Ethics - This course must be completed at UMSL.

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BACHELOR OF SCIENCE IN CIVIL ENGINEERING

☐ Philosophy of Science - This course must be completed at UMSL.

☐ American History - Complete 1 course from the following:
  
  HST 101 United States History to 1865 (3)
  HST 102 United States History from 1865 to the Present (3)

☐ Communication Proficiency - Complete 1 course from the following:
  
  COM 101 Oral Communication I (3)       COM 107 Public Speaking (3)
  COM 102 Oral Communication II (3)      COM 201 Interpersonal Communication (3)
  COM 104 Persuasion (3)                THT 108 Acting I (3)

☐ Humanities - Complete 1 of the following courses in addition to those already completed for above requirements:
  
  Any ENG Course numbered 110 or Above
  Any HUM Course
  Any MUS Course (Exceptions: Not MUS 150, 152, 153, 154 or 254)
  Any THT Course
  ARC 114 Architectural History and Theory (3)       AT 242 History of Graphic Communications (3)
  ART 100 Art Appreciation (3)                     COM 111 Voice and Articulation (3)
  ART 101 Art History I (3)                        COM 200 Communication Between Cultures (3)
  ART 102 Art History II (3)                       MCM 115 Acting for the Camera (3)
  ART 103 History of Modern Art (3)                MCM 132 Major Themes in Film (3)
  ART 153 History of Cultural Environments I (3)   MCM 209 Black Cinema (3)
  ART 168 History of Photography (3)              MCM 215 Major Black Directors (3)
  ART 254 History of Cultural Environments II (3)  SPA 206 Advanced Spanish Conversation and
  AT 204 Comic Book Illustration I (3)             Composition (3)

☐ Cultural Diversity Social Science - Complete 1 course from the following:
  
  ANT 102 Introduction to Cultural Anthropology (3) HST 130 African History I (3)
  ANT 105 Foundations of Archeology (3)            HST 201 History of the Far East (3)
  ANT 201 North American Archeology (3)            HST 205 The United States and the Middle East, 1776-Present (3)
  ANT 202 Ethnography: North American Indians (3)  GEG 100 Regional Geography: Eastern World (3)
  ANT 205 Cultural Context of Early Christianity (3) IDS 103 Topics in Arab Culture (3)
  ANT 206 The Incan, Aztec, & Mayan Cultures (3)   IDS 112 Sex Trafficking in Global Perspective (3)
  ANT 207 Ancient Civilization of the Old World (3) PSC 204 Politics of African Nations (3)
  GEG 100 Regional Geography: Eastern World (3)    

☐ Additional Social Science - Complete 1 of the following courses in addition to those already completed for above requirements:
  
  Any ANT Course
  Any CRJ Course (Exceptions: Not CRJ 209 or CRJ 211)
  Any ECO Course
  Any HST Course
  Any HMS Course
  Any PSC Course
  Any PSY Course
  Any SOC Course
  BUS 104 Introduction to Business Administration(3)  IDS 117 Sport and Society (3)
  BLW 201 Legal Environment of Business (3)         MCM 101 Intro to Mass Communications (3)
  COM 114 Oral Interpretation of Literature (3)     MCM 120 Introduction to Broadcasting (3)
  COM 200 Communication Between Cultures (3)       MCM 121 Television Production (3)
  FIN 100 Personal Finance (3)                      MCM 123 Broadcast Journalism (3)
  GEG 100 Regional Geography: Eastern World (3)    MCM 124 Radio Production (3)
  GEG 101 Regional Geography: Western World (3)    MCM 130 Film Appreciation (3)
  GEG 106 World Geography (3)                       MCM 131 History of Film (3)
  IDS 102 Urban Legends and American Society (3)   MCM 136 Introduction to Multimedia (2)
  IDS 103 Topics in Arab Culture (3)               MCM 140 Introduction to Advertising (3)
  IDS 112 Sex Trafficking in Global Perspective (3) MCM 201 Media Internship I (3)
  IDS 116 Historical, Social, and Cultural         MCM 202 Media Internship II (3)
  Constructions of Youth (3)                        WMS 100 Introduction to Women's Studies (3)

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

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