BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

UNIVERSITY OF MISSOURI – ST. LOUIS &
ST. CHARLES COMMUNITY COLLEGE
TRANSFER GUIDE

This Guide is intended for the use of students who plan on transferring from St. Charles Community College (SCC) to the University of Missouri – St. Louis (UMSL) to pursue a Bachelor of Science in Electrical 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 SCC and included here are any SCC 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 115 General Chemistry I (5)
☐ Calculus I, completed a C grade or higher - MAT 180 Calculus and Analytic Geometry I (5)
☐ Calculus II - MAT 230 Calculus and Analytic Geometry II (5)
☐ Calculus III - MAT 240 Calculus and Analytic Geometry III (5)
☐ Differential Equations - MAT 250 Differential Equations (3)
☐ Calculus-Based Physics I - PHY 250 Engineering Physics I (5)
☐ Calculus-Based Physics II - PHY 251 Engineering Physics II (5)
☐ Engineering-Statics - EGR 170 Engineering Mechanics I-Statics (3)
☐ Engineering-Dynamics - EGR 210 Engineering Mechanics II-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 SCC courses that fulfill corresponding requirements.

☐ First-Year Writing - Complete 1 course from the following with C- grade or higher:
  ENG 101 English Composition I (3)
  ENG 102 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 101 U.S. History to 1877 (3)
  HIS 102 U.S. History Since 1877 (3)

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- Communication Proficiency - Complete 1 course from the following:
  - SPE 101 Oral Communication (3)
  - SPE 102 Public Speaking (3)
  - SPE 110 Interpersonal Communication (3)
  - THE 128 Fundamentals of Acting (3)

- Humanities - Complete 1 of the following courses in addition to those already completed for above requirements:
  - Any LIT Courses
  - Any MUS Courses
  - Any PHL Courses
  - Any THE Courses (Exceptions: Not THE 123 or THE 124)
  - ART 1001 Art Appreciation (3)
  - ART 1500 Survey of Western Art History I: Prehistory to End of the Middle Ages (3)
  - ART 1505 Survey of Western Art History II: Renaissance to the Twentieth Century (3)
  - ART 2100 History of Graphic Design (3)
  - ART 2210 Modern & Contemporary Art History (3)
  - ART 2220 History of Photography (3)
  - BUS 105 Business Ethics (3)
  - CPT 105 Computer Ethics (3)
  - ENG 201 Introduction to Creative Writing (3)
  - ENG 202 Creative Writing II (3)
  - ENG 206 Fiction and Nonfiction Writing (3)
  - ENG 207 Poetry Writing (3)
  - ENG 208 Writing for Stage and Screen (3)
  - FRN 220 French Culture and Civilization (3)
  - GLR 202 German Conversation & Composition (4)
  - MUS 206 Composition II (3)

- Cultural Diversity Social Science - Complete 1 course from the following:
  - ANT 102 Introduction to Cultural Anthropology (3)
  - ANT 103 Introduction to Archaeology (3)
  - ANT 151 World Archaeology (3)
  - ANT 161 Archaeology of Religion (3)
  - ANT 171 Introduction to Egyptology (3)
  - ANT 220 Middle East: People and Cultures (3)
  - ANT 224 People and Cultures of Africa (3)
  - ANT 290 Topics in Anthropology (3)
  - GEO 101 Geography: The Eastern World (3)
  - GEO 102 Geography: The Western World (3)
  - GEO 115 Geography of North America (3)
  - GEO 101 Principles of Geography (3)
  - GLR 135 Cultures of the Amazon and Andes (1-3)
  - GLR 170 African Culture (1-3)
  - GLR 180 Australian Culture (1-3)
  - GLR 290 Special Topics in Global Culture (3)
  - GLR 101 Introduction to Global Studies (3)
  - HIS 101 History of the Western World (3)
  - HIS 202 Southwestern Asia: The Islamic World & India (3)
  - HIS 203 Eastern Asia: China & the Pacific Rim (3)
  - POL 220 Middle Eastern Politics (3)
  - POL 220 Middle Eastern Politics (3)

- Additional Social Science - Complete 1 of the following courses in addition to those already completed for above requirements:
  - Any ANT Courses
  - Any CRJ Courses (Exceptions: Not CRJ 104, 165, 230, 265, 266, 291, 292, and 298)
  - Any ECO Courses
  - Any GLC Courses (Exceptions: Not GLC 105, 145, 210, and 215)
  - Any GLS Courses
  - Any HIS Courses (Exceptions: Not HIS 296)
  - Any HMS Courses (Exceptions: Not HMS 298)
  - Any POL Courses
  - Any PSY Courses
  - Any SOC Courses
  - ART 2170 Video Production (3)
  - BUS 101 Introduction to Business (3)
  - BUS 246 Legal Environment of Business (3)
  - COM 112 Introduction to Radio and Television Broadcasting (3)
  - COM 260 Video Production for the Media (3)
  - COM 296 Mass Communication Internship (3)
  - GEO 201 Introduction to Geography (3)
  - GEO 202 Principles of Geography (3)
  - GEO 101 Geography: The Eastern World (3)
  - GEO 102 Geography: The Western World (3)
  - GEO 115 Geography of North America (3)
  - GEO 299 Topics in Geography (3)
  - THE 123 Introduction to Cinema (3)
  - THE 124 History of Film (3)

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

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