BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

UNIVERSITY OF MISSOURI – ST. LOUIS & SOUTHWESTERN ILLINOIS COLLEGE TRANSFER GUIDE

This Guide is intended for the use of students who plan on transferring from Southwestern Illinois College (SWIC) 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 SWIC and included here are any SWIC 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 - CHEM 105 General Chemistry I (5)
☐ Calculus I, completed a C grade or higher - MATH 203 Analytic Geometry & Calculus I (5)
☐ Calculus II - MATH 204 Analytic Geometry & Calculus II (5)
☐ Calculus III - MATH 205 Analytic Geometry & Calculus III (5)
☐ Differential Equations - MATH 290 Differential Equations (3)
☐ Calculus-Based Physics I - PHYS 204 Physics – Mechanics (4)
☐ Calculus-Based Physics II - PHYS 205 Physics – Heat, Elec & Magnetism (4)
☐ Engineering-Statics - ENGR 263 Analytical Mechanics-Statics (3)
☐ Engineering-Dynamics - ENGR 264 Analytical 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 SWIC courses that fulfill corresponding requirements.

☐ First-Year Writing - Complete 1 course from the following with C- grade or higher:
   ENG 101 Rhetoric & Composition I (3)
   ENG 102 Rhetoric & 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:
   HIST 180 U.S. History to 1865 (3)
   HIST 181 U.S. History, 1865 to the Present (3)

The information in this Transfer Guide is in accordance with the published 2016-2017 Course Catalogs of both UMSL and SWIC.
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☐ Humanities - Complete 1 of the following courses in addition to those already completed for above requirements:

Any LIT Courses
Any MUS Courses (Exceptions: Not MUS 154, 155, 201, 250, 251, 252, and 255)
Any THEA Courses

ART 101 Art Appreciation (3) FILM 115 Film Appreciation (3)
ART 102 Art Survey: Modern to Contemporary (3) FILM 205 Screenwriting II (3)
ART 103 Survey of Non-Western Art (3) FILM 225 Film & Literature (3)
ART 104 Art History I: Prehistoric-Gothic (3) FILM 299 Special Topics in Film Study (3)
ART 105 Art History II: Renaissance-Modern (3) FREN 202 Intermediate French II (4)
ART 106 History of Photography (3) GERM 202 Intermediate German II (4)
ART 110 Women in Art – Medieval to Modern (3) SPAN 202 Intermediate Spanish II (4)
ENG 107 Creative Writing (3) SPAN 211 Conversational Spanish I (3)
ENG 207 Advanced Creative Writing (3) SPCH 220 American Playhouse (3)
ENG 299 Special Topics in English (1-4)

☐ Cultural Diversity Social Science - Complete 1 course from the following:

ANTH 150 Cultural Anthropology (3) HIST 115 Mid-East History (3)
ANTH 210 Native American Cultures (3) HIST 117 African History (3)
ANTH 250 Introduction to Archaeology (3) HIST 118 Asian History (3)
HIST 114 Latin American History (3)

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

Any ANTH Courses
Any ECON Courses
Any HIST Courses
Any HMS Courses
Any POLS Courses
Any PSYC Courses (Exceptions: Not PSYC 200 and PSYC 252)
Any SOC Courses

AOJ 100 Intro to Administration of Justice (3) AOJ 252 Organized Crime (3)
AOJ 103 Introduction to Corrections (3) AOJ 261 Probation and Parole (3)
AOJ 105 Police Administration (3) AOJ 299 Spec Topics In Admin of Justice (1-4)
AOJ 153 Juvenile Delinquency (3) GEOG 151 Geography of the United States and Canada (3)
AOJ 155 Community Policing (3) GEOG 152 World Regional Geography (3)
AOJ 156 Issues in Criminal Justice (3) GEOG 202 Economic Geography (3)
AOJ 160 Criminology (3) MGMT 117 Personal Finance (3)
AOJ 203 Criminal Law & Admin. of Justice (3)