



# Associate of Science Engineering Elective Course Transfer Guide (Missouri S&T)

MACC COURSE	Missouri S&T EQUIVALENT	Ceramic & Metallurgical Engineering	Chemical Engineering	Civil Architectural & Environmental Engineering	Electrical & Computer Engineering	Geological & Petroleum Engineering	Mechanical & Aerospace Engineering	Mining Engineering	Nuclear Engineering
<b>AMD 101 Engineering Drawing</b>	GNCR 1XXX GENERAL CREDIT	free elective*	free elective*	free elective*	free elective*		free elective*		
<b>AMD 112 Computer Aided Design</b>	GNCR 1XXX GENERAL CREDIT	free elective*	free elective*	free elective*	free elective*		free elective*		
<b>CIT 105 Programming I</b>	CS1971, 1981 INTRO TO PROGRM METD & LAB (C++)	free elective*	<b>REQUIRED</b>	free elective*	<b>REQUIRED</b>		<b>REQUIRED</b>		<b>REQUIRED</b>
<b>CIT 205 Programming II</b>	CS1570, 1580 INTRO TO PROGRM & LAB (C++)	free elective*	free elective*	free elective*	<b>REQUIRED</b>		free elective*		
<b>EGN 201 Statics</b>	CIV ENG 2200 STATICS	<b>REQUIRED</b>	<i>Recommended as free elective*</i>	<b>REQUIRED</b>	<i>Partially fulfills science elective requirement*</i>	<b>REQUIRED</b>	<b>REQUIRED</b>	<b>REQUIRED</b>	<b>REQUIRED</b>
<b>IND 105 Fluid Power Principles</b>	GNCR 1XXX GENERAL CREDIT	free elective*	free elective*	free elective*	free elective*		free elective*		
<b>MTH 250 Differential Equations</b>	MATH 3329 ELEM DIFF EQN & MATRIX ALGEBRA	<b>REQUIRED</b>	<b>REQUIRED</b>	<b>REQUIRED</b>	<b>REQUIRED</b>	<b>REQUIRED</b>	<b>REQUIRED</b>	<b>REQUIRED</b>	<b>REQUIRED</b>
<b>PHY 122 General Chemistry II</b>	CHEM 1320 GEN CHEM II + CHEM 1510 QUAL ANALYS	<i>May be taken in place of MET ENG 1210</i>	<b>REQUIRED</b>	<b>REQUIRED</b> <i>(Environmental only)</i>	free elective*	<b>REQUIRED</b> <i>(Geological only)</i>	free elective*		
<b>PHY 163 Geology</b>	GEO1111/GEO1150 INTRO TO PHYSICAL GEOLOGY	free elective*	free elective*	<b>REQUIRED</b>	free elective*	<b>REQUIRED</b>	free elective*	<b>REQUIRED</b>	
		<i>*No free electives for ceramic; maximum of 5 hours for metallurgical engineering</i>	<i>*maximum of 3 hours of free electives</i>	<i>* maximum of 3 hours of free electives for architectural, no free electives for civil &amp; environmental</i>	<i>*maximum of 3 hours of free electives for both CE and EE</i>	<i>*no free electives applied toward degree for either GE or PE</i>	<i>* no free electives for ME; maximum of 2 hours of free electives for AE</i>	<i>*no free electives applied toward degree</i>	<i>*no free electives applied toward degree</i>