

Missouri S&T — North Central Missouri College

General Engineering Transfer Guide - Effective Fall 2008

The following North Central Missouri College course work will apply to Missouri S&T engineering degree requirements as outlined below.

North Central Missouri College		Missouri S&T				
NCMC #	Title	Hours	S&T #	Title	Hours	
Engineering Degree Requirements: Take all Courses						
General Pre-Engineering Curriculum	Math prerequisites. While they are not part of Missouri S&T engineering degree requirements, algebra and trigonometry skills are critical to success in calculus. Students should follow math placement testing and advising recommendations at their schools.					
	MT 150****	Analytical Geometry and Calculus I	5	MATH 014	Calculus for Engineers I	4
	MT 250****	Analytical Geometry and Calculus II	5	MATH 015	Calculus for Engineers II	4
	MT 260	Analytical Geometry and Calculus III	5	MATH 022	Calculus with Analytic Geometry III	4
	CH 110	General Chemistry I and Lab	5	CHEM 001, 002	General Chemistry (1st semester) and Lab	5
	EN 101	English Composition I	3	ENG 020	Exposition and Argumentation	3
	See Degree Requirements below and Notes on back.				Second Communication Requirement*	3
	EC 252 or EC 253	Microeconomics or Macroeconomics	3	ECON 121 or ECON 122	Principles of Microeconomics or Principles of Macroeconomics	3
	HI 103 or HI 104 or HI 102 or PL 216	American History to 1877 or American History since 1877 or Western Civilization II or National Government	3	HIS 175 or HIS 176 or HIS 112 or PS 090	American History to 1877 or American History since 1877 or Modern Western Civilization or American Government	3
	Free Electives: See Other Required Courses* on back. Electives should be selected in consultation with your advisor. Free electives may not include remedial/deficiency courses, algebra, trigonometry, pre-calculus, or extra credits in required courses.			Free Electives: See Other Required Courses* on back.		
Total Hours			29	Total Hours		29
Humanities and Social Sciences Electives: Select 2 Additional Courses from the Academic Areas Below*						
See your advisor and Missouri S&T Approved List of Humanities and Social Sciences for more options or email transfercredit@mst.edu for approval.						
Students may also transfer one upper-level humanities/social sciences elective to Missouri S&T.						
Humanities and Social Sciences Electives	HI 103	American History to 1877	3	HIS 175	American History to 1877	3
	HI 104	American History since 1877	3	HIS 176	American History since 1877	3
	PL 216	National Government	3	PS 090	American Government	3
	MUS 109	Music Appreciation	3	MUS 050	Music Understanding and Appreciation	3
	PY 121	General Psychology	3	PSY 050	General Psychology	3
	SO 107	General Sociology	3	SOC 081	General Sociology	3
	PH 102	Intro to Philosophy	3	PHIL 005	Intro to Philosophy	3
					Literature Elective	
					Foreign Language	
					Speech and Media Studies	
				Economics		
Total Hours			6-8	Total Hours		6-8
Additional Degree Requirements*						
The following additional courses will satisfy Missouri S&T engineering degree requirements for some, but not all, engineering degrees. Check individual Missouri S&T degree requirements on back for your major.						
Additional Courses (See Back Page for Individual)	EN 102	English Composition II	3	EN 060	Writing and Research	3
	SP 175	Speech	3	SPMS 085	Principles of Speech	3
	CH 112	General Chemistry II	5	CHEM 003, 008	General Chemistry (2nd semester) and Qualitative Analysis	5
	IT 243	Programming in C++ I	3	CS 74, 78	Intro to Programming Method and Lab (C++)	3
	BI 100	General Biology	5	BIO 110	General Biology	4
Maximum Degree Requirements to be Transferred to Missouri S&T Degree***					68***	
A grade of "C" or better is required in calculus and physics, as well as other courses depending on academic major.						
*See notes for individual majors on second page.						
**A passing grade on the Missouri S&T EE Advancement Exam I is required to receive credit for EE 151.						
***Students must receive special permission from Missouri S&T to apply more than 68 credit hours (using Missouri S&T credit-hour totals) toward Missouri S&T degree. Students are not required to complete all courses on this guide before transferring to Missouri S&T.						
****The combination of NCMC MT 150 and 250 is equivalent to Missouri S&T MATH 014 and 015.						