

Requirements and Notes for Missouri S&T Engineering Majors

The courses listed for each major are required for the Missouri S&T degree and may be taken before transfer to Missouri S&T if they are offered by the transfer school. They are not prerequisites for transfer to Missouri S&T.

Engineering Department	2nd Communication Course	Statistics/ Linear Algebra	Circuits	Statics and Dynamics	2nd Chemistry Course	Computer Science	Humanities/ Social Sciences	Other Required Courses
Aerospace Engineering	ENGLISH 1160 or ENGLISH 3560 or SPMS 1185	MATH 3108, STAT 3113, or STAT 3115 satisfies math/stat or comp sci elective	ELEC ENG 2800	CIV ENG 2200. AE/ME 2360.	none	CS 1970/1980, CS 1971/1981, or CS 1570/1580	Literature required. Ethics required.	MECH ENG 2519. CIV ENG 2210. Up to 2 hours of free electives applied toward degree.
Architectural Engineering	None required. ENGLISH 1160, ENGLISH 3560, or SPMS 1185 will count as GENG Ed electives	STAT 3113 or STAT 3115	ELEC ENG 2800 or 2100	CIV ENG 2200. MECH ENG 2350.	none	none	HISTORY 1200 is preferred, but HISTORY 1300 or 1310 are also acceptable.	MECH ENG 2527. CIV ENG 2210/2211. CE 2401. Up to 3 hours of free electives.
Ceramic Engineering	None required. ENGLISH 1160, ENGLISH 3560, or SPMS 1185 will count as Gen Ed electives	STAT 3113 or STAT 3115 or STAT 3117	none	CIV ENG 2200.	CHEM 1320 may be taken in place of MET ENG 1210	none		CIV ENG 2210. CHEM 2210/2219 will satisfy technical elective requirement. No free electives applied toward degree.
Chemical Engineering	None required. ENGLISH 1160, ENGLISH 3560, or SPMS 1185 will count as Gen Ed electives	none	none	CIV ENG 2200 is not required but is recommended as a free elective. Up to 6 hours of free electives.	CHEM 1320	CS 1970/1980, CS 1971/1981, or CS 1972/1982 or CS 1570/1580		CHEM 2210/2219. CHEM 2220/2229. Up to 3 hours of free electives.
Civil Engineering	ENGLISH 1160 or ENGLISH 3560 or SPMS 1185	STAT 3113 or STAT 3115	none	CIV ENG 2200. MECH ENG 2350.	none	none		GEO 1111/GE 1150. CIV ENG 2210/2211. CIV ENG 2401. No free electives applied toward degree.
Computer Engineering	SPMS 1185 is required	STAT 3115 or STAT 3117 or MATH 3108 satisfies mathematics elective	EE 2100 and passing score on EE Advancement Exam	MECH ENG 2340 or CIV ENG 2200 + MECH ENG 2350 will satisfy science elective requirement.	none	CS 1570/1580 and CS 1510 required.		Up to 3 hours of free electives.
Electrical Engineering	SPMS 1185 is required	STAT 3115 or STAT 3117 or MATH 3108	Elec Eng 2100 and passing score on EE Advancement Exam	MECH ENG 2340 or CIV ENG 2200 + MECH ENG 2350 will satisfy science elective requirement.	none	CS 1570/1580		Up to 3 hours of free electives.
Engineering Management	SPMS 1185. ENGLISH 3560 or ENGLISH 1160	STAT 3115 or 3117	ELEC ENG 2800 or 2100	CIV ENG 2200. MECH ENG 2350.	none	CS 1972/1982	PSYCH 1101 General Psychology required	MECH ENG 2527. CIV ENG 2210/2211. Up to 3 hours of free electives.
Environmental Engineering	ENGLISH 1160 or ENGLISH 3560 or SPMS 1185	STAT 3113 or STAT 3115	none	CIV ENG 2200. CIV ENG 2210/2211. MECH ENG 2350	CHEM 1320	none	Students are advised to take HISTORY 1300 or 1310 as a prerequisite for a required upper-level history course at Missouri S&T.	BIO SCI 1113. GEO 1111/GE 1150. Up to 3 hours of free electives.
Geological Engineering	SPMS 1185 or ENGLISH 3560		none	CIV ENG 2200. MECH ENG 2350.	Geol 3410 or CHEM 1320 or other chemistry beyond general chem.	none		GEO 1111/GE 1150. CIV ENG 2210. No free electives applied toward degree.
Mechanical Engineering	ENGLISH 1160 or ENGLISH 3560 or SPMS 1185	MATH 3108 or STAT 3113 or STAT 3115 satisfies math/stat or comp sci elective	ELEC ENG 2800	CIV ENG 2200. AE/ME 2360.	none	CS 1970/1980, CS 1971/1981, or CS 1972/1982 or CS 1570/1580	Literature required.	MECH ENG 2519. MET ENG 2110. CIV ENG 2210. CIV ENG 2211. No free electives applied toward degree.
Metallurgical Engineering	ENGLISH 1160 or ENGLISH 3560 or SPMS 1185	STAT 3113 or STAT 3115	none	CIV ENG 2200.	CHEM 1320 may be taken in place of MET ENG 1210	none		MET ENG 2110. CIV ENG 2210. Up to 5 hours of free electives.
Mining Engineering	ENGLISH 1160 or ENGLISH 3560	STAT 3113 or STAT 3115	none	CIV ENG 2200. MECH ENG 2350. (CIV ENG 2200+ MECH ENG 2350 will be substituted for IMECH ENG 2340. CIV ENG 2200+2210+ MECH ENG 2350 will be substituted for MiEng 3812.)	none	none		GEO 1111/GE 1150. MET ENG 2110 is technical elective. No free electives applied toward degree.
Nuclear Engineering	ENGLISH 1160 or ENGLISH 3560	STAT 3115	none	CIV ENG 2200	none	CS 1970/1980 or CS 1971/1981 or CS 1570/1580		MET ENG 2110. No free electives applied toward degree.
Petroleum Engineering	ENGLISH 1600	none	none	CIV ENG 2200. MECH ENG 2350.	none	none		GEO 1111/GE 1150 and GEO/GE 1119. MECH ENG 2527. CIV ENG 2210. No free electives applied toward degree.