

## Aerospace Engineering

Northwest Missouri State University				University of Missouri-Rolla		
Semester	NMSU #	Title	Hours	UMR #	Title	Hours
First	MATH 120	Calculus I	4	MATH 014	Calculus w/Analytic Geometry I	4
	CHEM 114	General Chemistry I	3	CHEM 001	General Chemistry	4
	CHEM 115	General Chemistry I Lab	1	CHEM 002	General Chemistry Lab	1
	CS 130	Using Computers*	3	CS 072	Software Application on the PC*	3
	ENGL 111	Composition	3	ENG 020	Exposition and Argumentation	3
	Total Semester Hours		14	Total Semester Hours		15
Second	MATH 121	Calculus II	4	MATH 015	Calculus w/Analytic Geometry II	4
	ENGL 112 or ENGL 315 or SPCH 102	Composition or Technical Writing or Fundamentals of Oral Communication	3	ENG 060 or ENG 160 or SPMS 085	Writing and Research or Technical Writing or Principles of Speech	3
	HIST 155 or POLS 102	America - A Historical Survey or Intro to American Government and Politics	3	HIST 175 or PS 090	U.S. History to 1877 or American Government	3
		Humanities/Social Science Elective	3		Humanities/Social Science Elective	3
	Total Semester Hours		13	Total Semester Hours		13
Third	MATH 321	Multivariate Calculus	4	MATH 022	Calculus w/Analytic geometry III	4
	PHYS 120 and PHYS 121	Fundamentals of Classical Physics I (4) and Lab (1)	5	PHYS 023	Engineering Physics I	4
	PHYS 322	Statics	3	IDE 050	Engineering Mechanics - Statics	3
	CS 149	FORTTRAN Programming	3	CS 073 and CS 077	Basic Scientific Programming (2) and Lab (1)	3
Total Semester Hours		15	Total Semester Hours		14	
Fourth	MATH 361	Differential Equations	3	MATH 204	Elementary Differential Equations	3
	PHYS 230 and PHYS 231	Fundamentals of Classical Physics II (4) and Lab (1)	5	PHYS 024	Engineering Physics II	4
	ECON 151 or ECON 150	General Economics II or General Economics I	3	ECON 121 or ECON 122	Principles of Microeconomics or Principles of Macroeconomics	3
		Literature Elective	3		Literature Elective	3
	Total Semester Hours		14	Total Semester Hours		13

This is a guide; with the consent of your advisor you may choose to vary the sequence or combination of some courses in a manner appropriate to individual course requirements and prerequisites.

A grade of "C" or better is required in calculus and physics.

\*Will not count toward degree; credit and grade will transfer.