



WESTERN CATS

Engineering Management 2022—2023

Recommended Four-Year Course Plan

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Year One			
Summer Before			
Course	Title	Units	Complete
MAT 187	Precalculus*	4	
Total		4	

Fall - Semester One			
Course	Title	Units	Complete
ENG 101	Freshman English	3	
CHM 151~	General Chemistry I	4	
MAT 220~	Calculus I with Analytic	5	
AGEC-S	Art	3	
Total		15	

Spring - Semester Two			
Course	Title	Units	Complete
ENG 102	Freshman English	3	
MAT 230~	Calculus II with Analytic	5	
CHM 152~	General Chemistry II	4	
EGR 188~	Fundamentals of EGR	4	
Total		16	

Total Year 1 Credits	31
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Year Three			
Fall - Semester Five			
Course	Title	Units	Complete
EGR 251 (AWC)	Statics	3	
BE 284	Thermodynamic Systems	3	
SIE 265	Engineering Mngt I	3	
SIE 295S (Y)	Sophomore Colloquium	1	
SIE 305 (Y)	Engineering Prob & Stats	3	
Minor Course	(See Faculty Advisor)	3	
Total		16	

Spring - Semester Six			
Course	Title	Units	Complete
SIE 270	Math Foundations of SE	3	
SIE 367	Engineering Mngt II	3	
SIE 431	Simulation & Modeling	3	
SIE 462 (Y)	Production Systems	3	
Minor Course	(See Faculty Advisor)	3	
Minor Course	(See Faculty Advisor)	3	
Total		18	

(Y) section meets in Yuma

Total Year 3 Credits	33
Total Year 4 Credits	39

Year Two			
Fall - Semester Three			
Course	Title	Units	Complete
MAT 241~	Calculus III	4	
PHY 121~	Physics I	4	
ECN 250	Intro to Microeconomics	3	
AGEC-S	Social Science	3	
EGR 123~	Structured Programing	3	
Total		17	

Spring - Semester Four			
Course	Title	Units	Complete
MAT 262~	Differential Equations	3	
PHY 131~	Physics II	4	
AGEC-S	General Elective	3	
AGEC-S	Humanities-WI	3	
EGR 207	Intro to Electrical EGR	3	
Total		16	

Total Year 2 Credits	33
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1 Prerequisites include MAT 187 or MAT 151 & 183 or placement testing
 *Course serves as pre-requisite, completion not required for degree
 ~ Prerequisite courses for entry into UA program – MUST have 2.0 GPA

Year Four			
Summer Session			
Course	Title	Units	Complete
SIE 340	Deterministic Ops Res	3	
ENGV 308	Technical Writing	3	
Total		6	

Fall - Semester Seven			
Course	Title	Units	Complete
SIE415	Technical Sales & Mrkting	3	
SIE 457	Project Management	3	
SIE 498A (Y)	Senior Design	3	
Minor Course	(See Faculty Advisor)	3	
Total		15	

Spring - Semester Eight			
Course	Title	Units	Complete
SIE 406	Quality Engineering	3	
SIE 414	Law for Engineers & Scienti	3	
SIE 464	Cost Estimation	3	
SIE 498B (Y)	Senior Design	3	
Minor Course	(See Faculty Advisor)	3	
Minor Course	(See Faculty Advisor)	3	
Total		18	

AS in Engineering	66
BS Degree	138