



THE UNIVERSITY OF ARIZONA  
Yuma

# WESTERN CATS

## Engineering Management

To schedule an appointment with an advisor, call Samuel Peffers: (928) 317-7067

### Recommended Four-Year Course Plan

2019-2020

#### Year One

##### Summer Before

Course	Title	Units	Complete
MAT 187	Precalculus *	4	
Total		4	

##### Fall - Semester One

Course	Title	Units	Complete
ENGL 101	Freshman English	3	
CHM 151~	General Chemistry I	4	
MAT 220~	Calculus I with Analytic <sup>1</sup>	5	
AGEC-S	Art	3	
Total		15	

##### Spring - Semester Two

Course	Title	Units	Complete
ENGL 102	Freshman English	3	
MAT 230~	Calculus II with Analytic	5	
CHM 152~	General Chemistry II	4	
EGR 188~	Fundamentals of Engineering <sup>1</sup>	4	
Total		16	

**Total Year 1 Credits** 31

#### Year Two

##### Fall - Semester Three

Course	Title	Units	Complete
MAT 241~	Calculus III	4	
PHY 121~	Mechanics	4	
ECN 250	Intro to Microeconomics	3	
AGEC-S	Social Science	3	
EGR 123~	Structured Programing <sup>1</sup>	3	
Total		17	

##### Spring - Semester Four

Course	Title	Units	Complete
MAT 262~	Differential Equations	3	
PHY 131~	Electromagnetism	4	
AGEC-S	Humanities-WI	3	
EGR 207	Intro to Electrical Engineering	3	
EGR 251	Statics	3	
Total		16	

**Total Year 2 Credits** 33

<sup>1</sup> 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 3.0 GPA

## Systems Engineering

### Year Three

Fall - Semester Five			
Course	Title	Units	Complete
SIE 250 (IT)	Intro to Sys Eng	3	
SIE 265 (IT)	Eng Mngt I	3	
SIE 277 (IT)	Object Oriented Design	3	
SIE 295S (Y)	Sophomore Colloquium	1	
SIE 305 (Y)	Engineering Prob & Stats	3	
AME 230 (IT)	Thermodynamics	3	
Total		16	

Spring - Semester Six			
Course	Title	Units	Complete
SIE 270 (IT)	Math Foundations of SE	3	
SIE 367 (IT)	Engineering Management II	3	
SIE 462 (IT)	Production Systems Analysis	3	
SIE 383 (IT)	Integrated Manufacturing Sys.	3	
(TE) (IT)		3	
(TE) (IT)		3	
Total		18	

### Year Four

Fall - Semester Seven			
Course	Title	Units	Complete
SIE 415 (IT)	Technical Sales & Marketing	3	
SIE 457 (IT)	Project Management	3	
SIE 454A (IT)	Sys Eng Process	3	
SIE 498A (Y)	Senior Design	3	
(TE) (IT)		3	
(TE) (IT)		3	
Total		18	

Spring - Semester Eight			
Course	Title	Units	Complete
SIE 431 (IT)	Sim Model Analysis	3	
SIE 498B (Y)	Senior Design	3	
SIE 414 (IT)	Law for Engineers & Scientists	3	
SIE 464 (IT)	Cost Estimation	3	
SIE 406 (IT)	Quality Engineering	3	
(TE) (IT)		3	
Total		18	

Summer Between Semesters 5&6, or 7&8			
Course	Title	Units	Complete
ENGV 308 (IT)	Technical Writing	3	
SIE 340 (IT)	Deterministic Ops Res	3	
(TE) (IT)		3	
Total		9	

(TE) denotes technical electives

(Y) section meets in Yuma

(IT) course transmitted to Yuma from Tucson