



BIOSYSTEMS ENGINEERING 2023-2024

To Schedule an appointment with an academic advisor call 928-782-1914 or email samuelpfeffers@arizona.edu

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	
EGR 188~	Fundamentals of EGR	4	
Total		16	

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	
PHY 121~	Physics I	4	
Total		16	

Credits	32
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Year Three			
Fall- Semester Five			
Course	Title	Units	Complete
BE 201	Introduction to Biosystems	2	
BE 221	Introduction to Computer Aided	3	
BE 284	Biosystems Thermal Engineering	3	
BE 310	Introductions to Biosystems	3	
SIE 265	Engineering Management	3	
SIE 295S	Colloquium	1	
Total		15	

Spring- Semester			
Course	Title	Units	Complete
BE 205	Engineering Analytic Computer	3	
CE 218	Mechanics of Fluids	3	
ENGL 308	Technical Writing	3	
SIE 305	Engineering Probability and	3	
SIE 370	Embedded Computer Systems	4	
BE 493	Internship	1	
Total		17	

Total Year 3 Credits	32
Total Year 4 Credits	31

Year Two			
Fall - Semester Three			
Course	Title	Units	Complete
MAT 241~	Calculus III	4	
BIO 181	Introductory Biology I	4	
EGR 251	Statics	3	
AGEC-S	Social Science	3	
AGEC-S	Art	3	
Total		17	

Spring - Semester Four			
Course	Title	Units	Complete
PHY 131~	Physics II	4	
MAT 262	Differential Equations	3	
AGEC-S	Social Science	3	
AGEC-S	Humanities-WI	3	
BIO 182	Introductory Biology II	4	
Total		17	

Total Year 2 Credits	34
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*For AS Engineering Degree, add EGR 123

Year Four			
Fall- Semester Seven			
Course	Title	Units	Complete
BE 385	Precision Observation with	3	
BE 434	Biosystems Analytics (Tech2)	3	
BE 477	Sensors and Controls	3	
BE 455	Soil & Water Resources (Design	3	
BE 498A	Senior Capstone	3	
BE 496A	Sem. ENGR Careers &	1	
Total		16	

Spring- Semester Eight			
Course	Title	Units	Complete
SIE 330R	EGR Design of Experiments(3	
BE 423	Biosystems Analysis and Design	3	
BE 498B	Senior Capstone	3	
PLS 475	Plant Physiology (Tech 2)	3	
BE 485	Remote Sensing (Design 3)	3	
Total		15	

AS in Engineering	65
Additional required for Bachelor's Degree	63
Total	128