

Maricopa Community Colleges to UA College of Engineering – Two Year Plan for Biosystems Engineering

Courses in **RED** – offered only at UA

Transfer: Maricopa	UA Course Requirements	Units
1ST SEMESTER		
ECE 102 & 103	ENGR 102 or ENGR 102A/B Introduction to Engineering	3
MAT 220 or MAT 221	MATH 124 Calculus I with Applications, MATH 122A/B or MATH 125	3 to 5
CHM 151 & 151LL	CHEM 151 General Chemistry I	4
ENG 101	ENGL 101 First-Year Composition	3
AGEC-S	General Education	3
2ND SEMESTER		
CHM 152 & 152LL	CHEM 152 General Chemistry II	4
MAT 230 or MAT 231	MATH 129 Calculus II	3
ENG 102	ENGL102 First-Year Composition	3
PHY 121 (or 115/116)	PHYS 141 Introductory Mechanics (or PHYS 141, PHYS142, PHYS 241)	4
AGEC-S	General Education	3
3RD SEMESTER		
BIO 181 or AGS 164	MCB 181R&L Introductory Biology I and Lab	4
ECE 211	CE 214 Statics	3
MAT 240 or MAT 241	MATH 223 Vector Calculus	4
	BE 284 Biosystems Thermal Engineering	3
	BE 201 Introduction to Biosystems Engineering	2
4TH SEMESTER		
MAT 262	MATH 254 Intro to Ordinary Differential Equations	3
PHY 131	PHYS 241 Introductory Electricity and Magnetism	4
BIO 182 or BIO 205 or BIO 201	ECOL 182 L&R Introductory Biology II or MIC 205 A & L General Microbiology or PSIO 201 Human Anatomy and Physiology I	4
AGEC-S	General Education	3
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	BE 205 Engineering Analytic Computer Skills	3