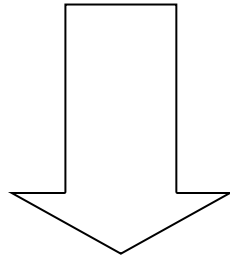
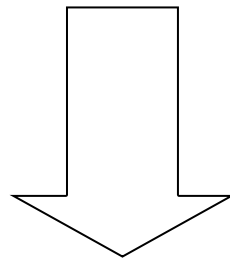


Biosystems Engineering Pathway

Arizona Western College
Associates of Engineering



University of Arizona– Yuma
Bachelor's in Biosystems Engineering



Food and Agricultural Science Careers

CAREERS

- Design Engineer
- Plant Manager
- Project Engineer
- Environmental Consultant
- Research Engineer
- Sales Representative
- Process Engineer

EMPLOYERS

- Biotechnology laboratories
- Chemical engineering firms
- Environmental consulting firms
- Food manufacturers
- Government agencies
- Paper and fiber products companies
- Recycling and waste management companies
- Universities and colleges
- Wood products manufacturers
- Biofuel industry



**Arizona Western College &
The University of Arizona - Yuma Academic Program
Bachelor of Science - Biosystems Engineering
2017-2018 Curriculum Check List
UNOFFICIAL PLANNING GUIDE**



ARIZONA WESTERN COLLEGE COURSES

ARIZONA GENERAL EDUCATION (AGEC-S)

Course	Units	COMPLETED
A. Freshman Composition		
a) ENG 101 Fresh. Comp.	3	_____
b) ENG102 Fresh. Comp.	3	_____
B. Mathematics		
a)+MAT 220 Calculus I	5	_____
C. Arts and Humanities		
a) PHI 105 Intro Ethics (rec,WI)	3	_____
b) Arts _____	3	_____
D. Social and Behavioral Sciences		
a) ECN 250 Microecon.(sugg)	3	_____
b) ECN 240 Macroecon (rec)	3	_____
E. Physical and Biological Sciences		
a)+CHM 151 Gen. Chemistry I	4	_____
b)+CHM 152 Gen. Chemistry II	4	_____
F. Additional Courses		
a)+MAT 262 Intro. Diff. Equ.	3	_____
b)+PHY 121 Gen Physics II	4	_____

AGEC-S Units 38

Select courses from AWC AGECE-S Curriculum Course List

Major Area Support Courses (AWC)(25 credits)

+MAT 230 Calc II w/Ana. Geo	5	_____
+MAT 241 Calc III w/Anal. Geo.	4	_____
+PHY 131 Gen. Physics II	4	_____
PLS 100 Plant Science	4	_____
OR		
BIO 181 General Biology	4	_____
+EGR123 Intro. Struct. Program	3	_____
+EGR188 Fund. Engr Design	4	_____

AS in Engineering 65 Total Units

Completion of AGECE-S and selected coursework would permit a student eligibility for an AS in Engineering through AWC. AGECE completion must be listed on transcripts

+Indicates prerequisite courses to apply into UA program

UNIVERSITY OF ARIZONA-YUMA COURSES

Major Courses–Biosystems Egr Units COMPLETED

ABE 201 Intro to Biosystems	2	_____
ABE 205 Egr Analytic Comp. Skills	3	_____
ABE 221 Intro to CAD	3	_____
ABE 393 Internship*	3	_____
ABE 423 Biosystems Analysis	3	_____
ABE 455 Soil & Water Egr	3	_____
ABE 475A Physio. Plant Prod.	3	_____
BIO 182 General Biology II	4	_____
OR		
BIO 205 Microbiology	4	_____
CE 214 Statics	3	_____
CE 218 Mechanics of Fluids	3	_____
ENVS 316 Soil Fertility	3	_____
SIE 265 Egr Management	3	_____
SIE 305 Egr Prob & Stats	3	_____

Choose 1

AGTM 422 Comm. Knowledge	3	_____
ENGV 308 Technical Writing	3	_____

University of Arizona-Tucson Courses

ABE 284 Biosystems Thermal Egr	3	_____
ABE 423 Biosys. Analysis & Design	3	_____
ABE 447 Sensors and Controls	3	_____
ABE 484 Adv. Biosys. Transport	3	_____
ABE 496A Seminar Egr Careers	1	_____
ABE 498A Cross Discipline Design	3	_____
ABE 498B Cross Discipline Design	3	_____
AME 324A Mech. Behav. Materials	3	_____

*May be completed at either Tucson or Yuma Campus

Minor Options-Select from the following options(18 credits):

- Systems Engineering
- Computer Science
- Math
- Plant Science

Total Credits for Graduation 128

Associate's Degree AWC Units	65	units
UA Units (30 units min.)	66	units
Total Units (Bachelors)	128	units
Minor	18	units
Math satisfies 2 nd language proficiency (Spanish 102, etc.) requirement		

For Information Contact:

AWC Advisement Services
(928) 344-7624
advising@azwestern.edu

UA Yuma Advisor: Tanya Hodges
(928)271-9560
thodges@cals.arizona.edu
Ag Science Building Room 137

