



The University of Arizona - Yuma  
 Biosystems Engineering  
 2022-2023 IVC Curriculum Check List



A. General Education Requirement						Status
IGETC-CSU						Approved
CSU GEB- English 201 or 204 Required in Area A.3						Approved
Recommendation: Use lower division major prep to fulfill general education pattern requirements.						
B. Lower Division Major Requirements						
Category	U of A Course	IVC Equivalent	Articulation Status	IGETC-CSU	CSUGEB	Notes
Composition						
First Year Composition	ENGL 101	ENGL 110 or 105	Approved	Area 1A	Area A2	Equivalent Course
First Year Composition	ENGL 102	ENGL 201 or 204	Approved	Area 1B	Area A3	Equivalent Course
Mathematics						
Calculus I with Applications	MATH 122B	MATH 192	Approved	Area 2	Area B4	Equivalent Course
Calculus II	MATH 129	MATH 194	Approved	Area 2	Area B4	Equivalent Course
Calculus Vector Calculus	MATH 223	MATH 210	Approved	Area 2	Area B4	Equivalent Course
Ordinary Differential Equations	MATH 254	MATH 220	Approved	Area 2	Area B4	Equivalent Course
Science						
Biology I	MCB 181/181L	BIOL 180	Approved	Areas 5B & 5C	Area B2 & B3	Equivalent Course
Biology II	ECOL 182/182L	BIOL 182 or AG 140	Approved	Areas 5B & 5C	Area B2 & B3	Equivalent Course
General Chemistry I	CHEM 151	CHEM 200	Approved	Areas 5A & 5C	Area B1 & B3	Equivalent Course
General Chemistry II	CHEM 152	CHEM 202	Approved	Areas 5A & 5C	Area B1 & B3	Equivalent Course
Introductory Mechanics	PHYS 141	PHYS 200	Approved	Areas 5A & 5C	Area B1 & B3	Equivalent Course
Intro. Electricity and Magnetism	PHYS 241	PHYS 202	Approved	Areas 5A & 5C	Area B1 & B3	Equivalent Course
Engineering						
Intro to Engineering	ENGR 102	ENGR 100 Pending				
Statics	CE 214	ENGR 210 (Articulation Pending)				
Elements of Electrical Engineering	ECE 207	ENGR 240				
Mechanics of Fluids	CE 218	Complete at U of A Yuma (Prerequisite: IVC ENGR 210,				
Intro to Biosystems Engineering	BE 201	Complete at U of A Yuma (Prerequisite: IVC MATH 192)				
Engr. Analytic Computer Skills	BE 205	Complete at U of A Yuma (Prerequisite: IVC MATH 192)				
Intro to Computer Aided Design	BE 221	Complete at U of A Yuma (No Prerequisite)				
Biosystems Thermal Engineering	BE 284	Complete at U of A Yuma (Prerequisites: IVC MATH 194 & Phys 200)				
Engineering Management I	SIE 265	Complete at U of A Yuma (Prerequisites: IVC Math 194 and U of A ENGR 102 or AWC EGR 188)				

**Online Advising is available:**

To schedule an online appointment with a Univ. of Arizona advisor please contact:

IVC Transfer Center Office Assistant Edgar Espinoza at 760 355 6274 or email at [edgar.espinoza@imperial.edu](mailto:edgar.espinoza@imperial.edu)

Students desiring an IVC associate degree should work with an IVC counselor to determine the degree that will best suit their academic and career goals.

U of A Gender and Diversity requirement is now satisfied by the completion of IGETC or CSU GEB.