



**The University of Arizona - Yuma**  
**Biosystems Engineering**  
**2019-2020 IVC Curriculum Check List**



<b>A. General Education Requirement</b>						<b>Status</b>
IGETC-CSU						Approved
CSU GEB- English 201 Required in Area A.3						Approved
Recommendation: Use lower division major prep to fulfill general education pattern requirements.						
<b>B. Lower Division Major Requirements</b>						
<b>Category</b>	<b>U of A Course</b>	<b>IVC Equivalent</b>	<b>Articulation Status</b>	<b>IGETC-CSU</b>	<b>CSUGEB</b>	<b>Notes</b>
<b>Composition</b>						
First Year Composition	ENGL 101	ENGL 110	Approved	Area 1A	Area A2	Equivalent Course
First Year Composition	ENGL 102	ENGL 201	Approved	Area 1B	Area A3	Equivalent Course
<b>Mathematics</b>						
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
<b>Science</b>						
Biology I	MCB 181/181L	BIOL 180	Approved	Areas 5B & 5C	Area B2 & B3	Equivalent Course
Biology II	ECOL 182/182L	BIOL 182	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
<b>Engineering</b>						
Intro to Engineering	ENGR 102	AWC: EGR 188 (Prerequisites: Pre-calculus or College Algebra and Trig or approved higher level math course)				
Statics	CE 214	ENGR 210 (Articulation Pending)				
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)				

- During the semester an academic advisor for all University of Arizona – Yuma program advisor is available weekly at the Imperial Valley College Transfer Center.
- To schedule an appointment with a Univ. of Arizona advisor on the IVC Campus, please call 760 355 6274 or stop by the IVC Transfer Center in Building 100.
- Articulation Status: Any IVC course not currently earning “Approved” status is still under review and will be accepted at the discretion of the university department. An articulated course is offered at Arizona Western College. Please see the Univ. of Arizona Academic Advisor for additional information.
- 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.