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| **The University of Arizona - Yuma Systems Engineering**  **2024-2025 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 AB | | 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** | | | | | | | | | | |
| General Chemistry I | CHEM 152 | CHEM 200 | | Approved | | Area 5A & 5C | | Area B1 & B3 | | Equivalent Course |
| General Chemistry II or | CHEM 152 | CHEM 202 | | Approved | | Area 5A & 5C | | Area B1 & B3 | | Equivalent Course |
| Introductory Mechanics | PHYS 141 | PHYS 200 | | Approved | | Area 5A & 5C | | Area B1 & B3 | | Equivalent Course |
| Intro. Electricity and Magnetism | PHYS 241 | PHYS 202 | | Approved | | Area 5A & 5C | | Area B1 & B3 | | Equivalent Course |
| **Engineering** | | | | | | | | | | |
| Programming for Engineers | CSC 110 | CIS 210 | | Pending | | N/A | | N/A | | Under Review |
| Intro to Engineering | ENGR 102 | ENGR 100 | Pending | | N/A | | N/A | | Under Review | |
| Elements of Electrical Engineering | ECE 207 | ENGR 240 | Approved | | N/A | | N/A | | Equivalent Course | |
| Intro to Systems/Industrial | SIE 250 | Complete at U of A Yuma (Prerequisites: IVC MATH 192 & AWC EGR 188) | | | | | | | | |
| Object Oriented Modeling/Design | SIE 277 | Complete at U of A Yuma (Prerequisites: IVC MATH 192 & CS 221) | | | | | | | | |
| Engineering Management I | SIE 265 | Complete at U of A Yuma ( Prerequisites: AWC EGR 188 & IVC Math 192) | | | | | | | | |
| Mathematical Foundations of SIE | SIE 270 | Complete at U of A Yuma ( Prerequisites: IVC MATH 194 & Physics 200 & CS 221) | | | | | | | | |
| Systems & Industrial Colloq. | SIE 295S | Complete at U of A Yuma (Prerequisite: SIE 265) | | | | | | | | |
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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.

The U of A Gender and Diversity requirement can now be satisfied through completing IGETC or CSU GEB.