

Course Subject and Title <i>(courses in bold/shading are critical)</i>	Hrs.	Upper Division	Completed Transfer Pathway: <input type="checkbox"/> MAPP <input type="checkbox"/> TAG <input type="checkbox"/> ATP <input type="checkbox"/> None		Completed General Education: <input type="checkbox"/> AGECE <input type="checkbox"/> IGETC/CSUGE <input type="checkbox"/> None	
			Transfer Course/Grade	Minimum Grade if Required	Additional Critical Requirement Notes	
TERM ONE: 0-15 CREDIT HOURS						
ASU 101: The ASU Experience	1	<input type="checkbox"/>				<ul style="list-style-type: none"> ASU 101 is for freshman ASU students only. Not required for transfer students. An SAT, ACT, Accuplacer, or TOEFL score determines placement into first-year composition courses ALEKS score determines placement in mathematics and science courses
EGR 101: Introduction to Engineering Design I	3	<input type="checkbox"/>		Grade of C		
MAT 265: Calculus for Engineers I (MA) OR MAT 170: Precalculus or pre-requisite	3	<input type="checkbox"/>		Grade of C		
Humanities, Fine Arts, & Design (HU)	3	<input type="checkbox"/>				
ENG 101 or 102: First-Year Composition OR ENG 105: Advanced First-Year Composition OR ENG 107 or 108: English for Foreign Students	3	<input type="checkbox"/>		Grade of C		
TERM TWO: 16-30 CREDIT HOURS						
CST 150: Digital Systems (CS)	3	<input type="checkbox"/>		Grade of C	<ul style="list-style-type: none"> Students can take PHY 111/113 for this major but it will not satisfy BSE Engineering degree requirements Complete one of the following: PHY 111/113 or PHY 121/122 or CHM 113 Complete MAT 265: Calculus for Engineers I 	
EGR 102: Introduction to Engineering Design II	4	<input type="checkbox"/>		Grade of C		
MAT 266: Calculus for Engineers II OR MAT 265: Calculus for Engineers I	3	<input type="checkbox"/>		Grade of C		
PHY 121: University Physics I: Mechanics AND PHY 122: University Physics Laboratory I (SQ)	4	<input type="checkbox"/>		Grade of C		
ENG 101 or 102: First-Year Composition OR ENG 107 or 108: English for Foreign Students OR ENG 105: Advanced First-Year Composition	3	<input type="checkbox"/>		Grade of C		
TERM THREE: 31-45 CREDIT HOURS						
CHM 113: General Chemistry I (SQ)	4	<input type="checkbox"/>		Grade of C	<ul style="list-style-type: none"> Completed First-Year Composition Requirement (ENG 101/107 and ENG 102/108 or ENG 105) Complete one of the following: PHY 111/113 or PHY 121/122 or CHM 113 MAT 243 required for CST 230 	
CST 220: Programming Languages for Technology with C/C++ and Scripting	3	<input type="checkbox"/>		Grade of C		
EGR 280: Engineering Statistics (CS)	3	<input type="checkbox"/>		Grade of C		
MAT 243: Discrete Mathematical Structures	3	<input type="checkbox"/>		Grade of C		
Humanities, Fine Arts, & Design (HU) with Cultural (C) awareness area	3	<input type="checkbox"/>				
TERM FOUR: 46-60 CREDIT HOURS						
CST 230: Applied Data Structures	3	<input type="checkbox"/>		Grade of C	<ul style="list-style-type: none"> ECN 211 or ECN 212 recommended business exposure course 	
CST 250: Microcomputer Architecture Programming AND CST 251: Microcomputer Architecture Programming Laboratory	3/1	<input type="checkbox"/>		Grade of C		
ECN 211: Macroeconomic Principles (SB)	3	<input type="checkbox"/>				
Lab Science Elective (SQ or SG)	4	<input type="checkbox"/>				
TERM FIVE: 61-75 CREDIT HOURS						
CST 315: Software Enterprise I: Tools and Process	3	<input checked="" type="checkbox"/>				
CST 359: Internet Networking Protocol	3	<input checked="" type="checkbox"/>				
CST 433: Database Technology	3	<input checked="" type="checkbox"/>				
CST 400-level course	3	<input checked="" type="checkbox"/>				
Social and Behavioral Sciences (SB) or Humanities, Fine Arts, & Design (HU) with Historical (H) awareness area	3	<input type="checkbox"/>				
TERM SIX: 76-90 CREDIT HOURS						
CST 316: Software Enterprise II: Construction and Transition	3	<input checked="" type="checkbox"/>			<ul style="list-style-type: none"> TWC 400 recommended for upper division literacy 	
CST 335: Applications of Computer Theory	3	<input checked="" type="checkbox"/>				
CST 386: Operating Systems Principles	3	<input checked="" type="checkbox"/>				
Literacy and Critical Inquiry (L)	3	<input checked="" type="checkbox"/>				
MAT 343: Applied Linear Algebra	3	<input checked="" type="checkbox"/>				
TERM SEVEN: 91-105 CREDIT HOURS						
CST 415: Software Enterprise III: Inception & Elaboration (L)	3	<input checked="" type="checkbox"/>				
CST 420: Foundations of Distributed Web-Based Applications in Java	3	<input checked="" type="checkbox"/>				
CST 496: Ethics and Professionalism in Computing	1	<input checked="" type="checkbox"/>				
CST 400-level course	3	<input checked="" type="checkbox"/>				
Technical elective	3	<input type="checkbox"/>				
Electives	2	<input type="checkbox"/>				
TERM EIGHT: 106-120 CREDIT HOURS						
CST 416: Software Enterprise IV: Project & Process Management	3	<input checked="" type="checkbox"/>			<ul style="list-style-type: none"> HST 318 recommended for upper division SB and Global awareness area (SB, G) 	
CST 400-level course	3	<input checked="" type="checkbox"/>				
CST 400-level course	3	<input checked="" type="checkbox"/>				
Upper Division Social and Behavioral Sciences (SB) and Global (G) awareness area	3	<input checked="" type="checkbox"/>				
Technical Elective	3	<input type="checkbox"/>				

Graduation Requirements Summary:

Total Hours (120 minimum)	Total Hrs at ASU (30 minimum)	Hrs Resident Credit for Academic Recognition (56 minimum)	Major GPA (2.000 Min.)	Total UD Hrs (45 minimum)	Comm. College Hrs. (64 maximum)

General University Requirements: Legend

General Studies Core Requirements:

- Literacy and Critical Inquiry (L)
- Mathematical Studies (MA)
- Computer/Statistics/Quantitative applications (CS)
- Humanities, Fine Arts, and Design (HU)
- Social and Behavioral Sciences (SB)
- Natural Science-Quantitative (SQ)
- Natural Science-General (SG)

General Studies Awareness Requirements

- Cultural Diversity in the US (C)
- Global Awareness (G)
- Historical Awareness (H)

First-Year Composition

Additional Notes: