

Critical Requirements: Students who follow the 2008-2009 catalog year and are entering ASU as either a first-time freshman or transfer from any Arizona public university or Arizona community college must complete critical requirements.

Major Map: Computer Science – Bachelor of Science (B.S.)

Ira A. Fulton School of Engineering, Tempe Campus
Catalog Year: 2008-2009

Completed ATP: Yes No Completed AGEC: Yes No

Course Subject and Title <i>(courses in bold/shading are critical)</i>	Hrs.	Upper Division	Transfer Course/Grade	Minimum Grade if Required	Completed ATP: <input type="checkbox"/> Yes <input type="checkbox"/> No	Completed AGEC: <input type="checkbox"/> Yes <input type="checkbox"/> No	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"> Complete CSE 100 or 110; MAT 265 each with a minimum grade of "C" General Elective: cannot include CSE, MAT, PHY, BIO, CHM or other Science course An SAT, ACT, Accuplacer, or TOEFL score determines placement into first-year composition courses ASU Math Placement Exam score determines placement in Mathematics course **If ENG 105 a 3 hr applicable elective must also be taken prior to graduation. See Advisor. # Designates Major Course: A minimum cumulative GPA of 2.0 required.
# CSE 100: Principles of Programming with C++ (CS) OR # CSE 110: Principles of Programming with Java (CS)	3	<input type="checkbox"/>		Grade of C			
MAT 265: Calculus for Engineers I (MA)	3	<input type="checkbox"/>		Grade of C			
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			
Social & Behavioral Science (SB) AND Cultural Diversity in the US (C), Global Awareness (G) or Historical Awareness (H)	3	<input type="checkbox"/>					
General Elective	3	<input type="checkbox"/>					
TERM TWO: 16-30 CREDIT HOURS							
# CSE 120: Digital Design Fundamentals	3	<input type="checkbox"/>		Grade of C			<ul style="list-style-type: none"> Complete CSE 120, 205; MAT 266 each with a minimum grade of "C" # Designates Major Course: A minimum cumulative GPA of 2.0 required.
# CSE 205: Concepts of Computer Science & Data Structures (CS)	3	<input type="checkbox"/>		Grade of C			
MAT 266: Calculus for Engineers II	3	<input type="checkbox"/>		Grade of C			
BIO 187: General Biology I (SQ) or BIO 188: General Biology II (SQ)	4	<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			
General Elective	3	<input type="checkbox"/>					
TERM THREE: 31-45 CREDIT HOURS							
# CSE 230: Computer Organization and Assembly Language Programming	3	<input type="checkbox"/>		Grade of C			<ul style="list-style-type: none"> Complete CSE 230; MAT 243, 267 each with a minimum grade of "C" Complete First Year Composition requirement: ENG 101 & 102 or ENG 107 & 108 or ENG 105 See Advisor for approved Laboratory Science sequence courses # Designates Major Course: A minimum cumulative GPA of 2.0 required.
MAT 243: Discrete Mathematical Structures	3	<input type="checkbox"/>		Grade of C			
MAT 267: Calculus for Engineers III	3	<input type="checkbox"/>		Grade of C			
Humanities, Fine Arts & Design (H) AND Cultural Diversity in the US (C), Global Awareness (G), or Historical Awareness (H)	3	<input type="checkbox"/>					
Laboratory Science I (SQ)	4	<input type="checkbox"/>					
General Elective	3	<input type="checkbox"/>					
TERM FOUR: 46-60 CREDIT HOURS							
#CSE 240: Introduction to Programming Languages	3	<input type="checkbox"/>		Grade of C			<ul style="list-style-type: none"> Complete CSE 240 with a minimum grade of "C" See Advisor for approved Laboratory Science sequence courses General Elective: cannot include CSE, MAT, PHY, BIO, CHM or other Science course # Designates Major Course: A minimum cumulative GPA of 2.0 required.
# MAT 343: Applied Linear Algebra	3	<input checked="" type="checkbox"/>					
Laboratory Science II (SQ)	4	<input type="checkbox"/>					
Social & Behavioral Science (SB) AND Cultural Diversity in the US (C), Global Awareness (G), or Historical Awareness (H)	3	<input type="checkbox"/>					
General Elective	3	<input type="checkbox"/>					
General Elective	3	<input type="checkbox"/>					
TERM FIVE: 61-75 CREDIT HOURS							
# IEE 380: Probability and Statistics for Engineering Problem Solving	3	<input checked="" type="checkbox"/>					<ul style="list-style-type: none"> # Designates Major Course: A minimum cumulative GPA of 2.0 required.
# CSE 301: Computing Ethics	1	<input checked="" type="checkbox"/>		Grade of C			
# CSE 310: Data Structures and Algorithms	3	<input checked="" type="checkbox"/>		Grade of C			
# CSE 360: Introduction to Software Engineering	3	<input checked="" type="checkbox"/>		Grade of C			
Humanities, Fine Arts & Design (HU) AND Cultural Diversity in the US (C), Global Awareness (G), or Historical Awareness (H)	3	<input type="checkbox"/>					
General Elective	3	<input type="checkbox"/>					
TERM SIX: 76-90 CREDIT HOURS							
# CSE 340: Principles of Programming Languages	3	<input checked="" type="checkbox"/>		Grade of C			<ul style="list-style-type: none"> See Advisor for approved list of Technical Electives # Designates Major Course: A minimum cumulative GPA of 2.0 required.
# CSE 355: Introduction to Theoretical Computer Science	3	<input checked="" type="checkbox"/>		Grade of C			
# CSE 4** Computer Science Elective	3	<input checked="" type="checkbox"/>		Grade of C			
Computer Science Technical Elective	3	<input checked="" type="checkbox"/>		Grade of C			
UD Humanities, Fine Arts & Design (HU) OR Social & Behavioral Science (SB)	3	<input checked="" type="checkbox"/>					
General Elective	3	<input type="checkbox"/>					
TERM SEVEN: 91-105 CREDIT HOURS							
# CSE 430: Operating Systems	3	<input checked="" type="checkbox"/>		Grade of C			<ul style="list-style-type: none"> See Advisor for approved list of Computer Science Electives General Elective: cannot include CSE, MAT, PHY, BIO, CHM or other Science course # Designates Major Course: A minimum cumulative GPA of 2.0 required.
# CSE 485: Computer Science Capstone Project I (L)	3	<input checked="" type="checkbox"/>		Grade of C			
# CSE 4** Computer Science Elective	3	<input checked="" type="checkbox"/>		Grade of C			
# CSE 4** Computer Science Elective	3	<input checked="" type="checkbox"/>		Grade of C			
General Elective	1	<input type="checkbox"/>					
General Elective	1	<input type="checkbox"/>					

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TERM EIGHT: 106-120 CREDIT HOURS					
# CSE 486: Computer Science Capstone Project II (L)	3	<input checked="" type="checkbox"/>		Grade of C	<ul style="list-style-type: none"> See Advisor for approved list of Technical Electives # Designates Major Course: A minimum cumulative GPA of 2.0 required.
# CSE 4** Computer Science Elective	3	<input checked="" type="checkbox"/>		Grade of C	
# CSE 4** Computer Science Elective	3	<input checked="" type="checkbox"/>		Grade of C	
# Computer Science Technical Elective	3	<input checked="" type="checkbox"/>		Grade of C	
Humanities, Fine Arts & Design (HU) OR Social & Behavioral Science (SB)	3	<input type="checkbox"/>			

Graduation Requirements Summary:

Total Hours Regular Curriculum (120)	Total Hrs at ASU (30 min)	Hrs Resident Credit for Academic Recognition (56 min)	Major GPA (2.000 Min. CUM GPA)	Total UD Hrs (45 min)	Total Comm. College Hrs. (64 Max)

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: