

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.

Course Subject and Title <i>(courses in bold/shading are critical)</i>	Hrs.	Upper Division	Completed ATP: <input type="checkbox"/> Yes <input type="checkbox"/> No		Completed AGEC: <input type="checkbox"/> Yes <input type="checkbox"/> No
			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"> • Complete CHM 114 or 116; MAT 265 with a minimum grade of “C” • An SAT, ACT, Accuplacer, or TOEFL score determines placement into first-year composition courses • ASU Math Placement Exam score determines placement in Mathematics course *CHM 113 is a prerequisite and does not apply toward degree credit. **If ENG 105 a 3 hr applicable elective must also be taken prior to graduation. See Advisor.
CEE 100: Intro to Civil and Environmental Engineering OR ECN 211/212 (SB): Macroeconomic Principles/ Microeconomic Principles or ECN 201: Economic Issues & Analysis (SB)	2 or 3	<input type="checkbox"/>		Grade of C in CEE 100	
CHM 114: General Chemistry for Engineers (SQ) OR CHM 116: General Chemistry II* (SQ)	4	<input type="checkbox"/>			
MAT 265: Calculus for Engineers I	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	
TERM TWO: 16-30 CREDIT HOURS					
CEE 100: Intro to Civil and Environmental Engineering OR ECN 211/212 (SB): Macroeconomic Principles/ Microeconomic Principles or ECN 201: Economic Issues & Analysis (SB)	2 or 3	<input type="checkbox"/>		Grade of C in CEE 100	<ul style="list-style-type: none"> • Complete CEE 100; MAT 242, 266; PHY 121 & 122 each with a minimum grade of “C”
MAT 242: Elementary Linear Algebra	2	<input type="checkbox"/>		Grade of C	
MAT 266: Calculus for Engineers II	3	<input type="checkbox"/>		Grade of C	
PHY 121/122: University Physics I/Laboratory I (SQ)	3/1	<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	
TERM THREE: 31-45 CREDIT HOURS					
CEE 210: Engineering Mechanics: Statics	3	<input type="checkbox"/>		Grade of C	<ul style="list-style-type: none"> • Complete CEE 210; MAT 267, 275, PHY 131 & 132 each with a minimum grade of “C” • Complete First Year Composition requirement: ENG 101 & 102 or ENG 107 & 108 or ENG 105
MAT 267: Calculus for Engineers III	3	<input type="checkbox"/>		Grade of C	
MAT 275: Modern Differential Equations (MA)	3	<input type="checkbox"/>		Grade of C	
PHY 131/132: University Physics II: Electricity and Magnetism/ Laboratory II (SQ)	3/1	<input type="checkbox"/>		Grade of C	
TERM FOUR: 46-60 CREDIT HOURS					
CEE 212: Engineering Mechanics: Dynamics	3	<input type="checkbox"/>			<ul style="list-style-type: none"> • Complete CEE 212 • Complete CEE 213 with a minimum grade of “C”
CEE 213: Introduction to Deformable Solids	3	<input type="checkbox"/>		Grade of C	
EEE 202: Circuits I	4	<input type="checkbox"/>			
Humanities, Fine Arts & Design (HU) OR Social & Behavioral Science (SB), AND Cultural Diversity in the US (C) or Global Awareness (G):	3	<input type="checkbox"/>			
Basic Science Elective:	3	<input type="checkbox"/>			
TERM FIVE: 61-75 CREDIT HOURS					
# CEE 384: Numerical Methods for Engineers (CS)	3	<input checked="" type="checkbox"/>			# Designates Major Course: A minimum cumulative GPA of 2.30 required in all CEE 3XX courses, a minimum cumulative GPA of 2.30 required in all CEE 4XX courses.
Select 3					
# CEE 300: Engineering Business Practice (L) (3 hrs)					
# CEE 321: Structural Analysis and Design (4 hrs)					
# CEE 341: Fluid Mechanics for Civil Engineers (4 hrs)					
# CEE 351: Geotechnical Engineering (4 hrs)					
# CEE 353: Civil Engineering Materials (3 hrs)					
# CEE 361: Introduction to Environmental Engineering (4 hrs)	10 or 12				
# CEE 372: Transportation Engineering (4 hrs)		<input checked="" type="checkbox"/>			
IEE 380: Probability and Statistics for Engineering Problem Solving	3	<input checked="" type="checkbox"/>			
TERM SIX: 76-90 CREDIT HOURS					
Select remaining 4					# Designates Major Course: A minimum cumulative GPA of 2.30 required in all CEE 3XX courses, a minimum cumulative GPA of 2.30 required in all CEE 4XX courses.
# CEE 300: Engineering Business Practice(L) (3 hrs)					
# CEE 321: Structural Analysis and Design (4 hrs)					
# CEE 341: Fluid Mechanics for Civil Engineers (4 hrs)					
# CEE 351: Geotechnical Engineering (4 hrs)					
# CEE 353: Civil Engineering Materials (3 hrs)					
# CEE 361: Introduction to Environmental Engineering (4 hrs)	14 or 16				
# CEE 372: Transportation Engineering (4 hrs)		<input checked="" type="checkbox"/>			
TERM SEVEN: 91-105 CREDIT HOURS					
Select 4					# Designates Major Course: A minimum cumulative GPA of 2.30 required in all CEE 3XX courses, a minimum cumulative GPA of 2.30 required in all CEE 4XX courses.
# CEE 281: Surveying (3 hrs)					
# CEE 412: Pavement Analysis and Design (3 hrs) OR # CEE 483: Highway Materials, Construction and Quality (3 hrs)					
# CEE 420: Steel Structures (3 hrs) OR # CEE 421: Concrete Structures (3 hrs)					
# CEE 452: Foundation (3 hrs)					
# CEE 481: Civil Engineering Project (3 hrs)					
# Approved technical elective (3 hrs)	12	<input checked="" type="checkbox"/>			
#CEE 400: Earth Systems Engineering and Management (HU, H) OR Social & Behavioral Science (SB) AND Cultural Diversity in the US (C) or Global Awareness (G)	3	<input checked="" type="checkbox"/>			

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TERM EIGHT: 106-120 CREDIT HOURS					
Select remaining 2 # CEE 281: Surveying (3 hrs) # CEE 412: Pavement Analysis and Design (3 hrs) OR # CEE 483: Highway Materials, Construction and Quality (3 hrs) # CEE 420: Steel Structures (3 hrs) OR # CEE 421: Concrete Structures (3 hrs) # CEE 452: Foundation (3 hrs) # CEE 481: Civil Engineering Project (3 hrs) # Approved technical elective (3 hrs)	6	<input checked="" type="checkbox"/>			# Designates Major Course: A minimum cumulative GPA of 2.30 required in all CEE 3XX courses, a minimum cumulative GPA of 2.30 required in all CEE 4XX courses.
#CEE 400: Earth Systems Engineering and Management (HU, H) OR Social & Behavioral Science (SB) AND Cultural Diversity in the US (C) or Global Awareness (G) if CEE 400 completed	3	<input type="checkbox"/>			
# CEE 486: Integrated Civil Engineering Design (L)	4	<input checked="" type="checkbox"/>			
Humanities, Fine Arts & Design (HU) AND Cultural Diversity in the US (C) or Global Awareness (G)	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 (2.30 Min. CUM GPA in CEE 3XX, 2.30 min CUM GPA in CEE 4XX)	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: