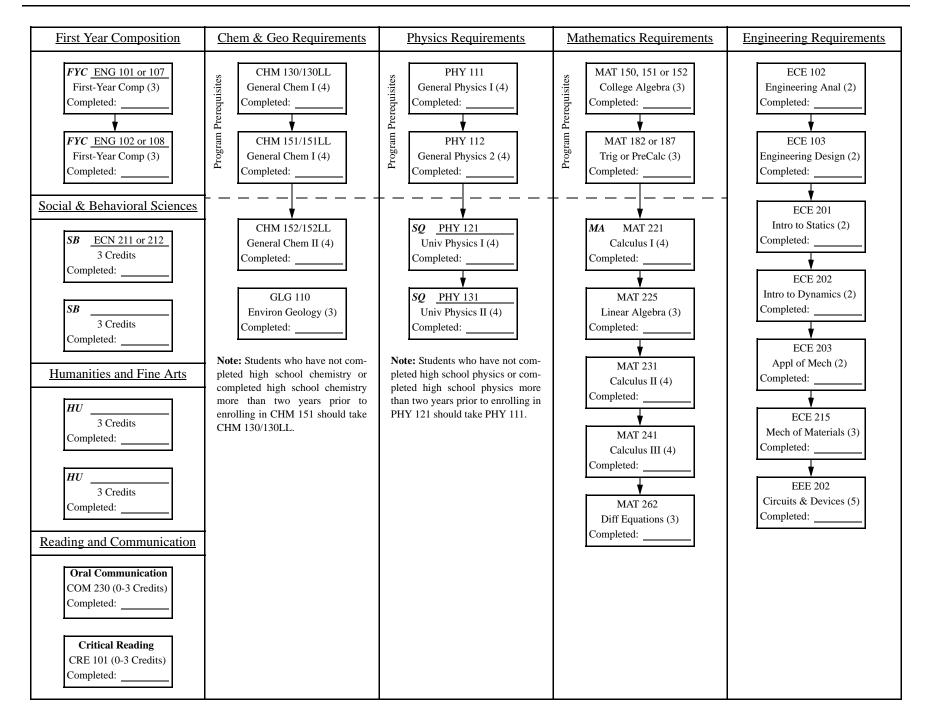
Associate in Science (AS) Degree MCC/ASU Fulton Civil Engineering (Construction Engineering) Advisement Flow Chart 2009-2010 Catalog Year





Major Map: Civil Engineering (Construction Engineering) – Bachelor of Science in Engineering (B.S.E.) Ira A. Fulton School of Engineering, Tempe Campus Catalog Year: 2009-2010

			Completed AT	TP: \[Yes \[\] No	Completed AGEC: Yes No
Course Subject and Title		Upper	Transfer	Minimum Grade if	Completed AGEC. 1 1es 1 No
(courses in bold/shading are critical)	Hrs.	Division	Course/Grade	Required	Additional Critical Requirement Notes
TERM ONE: 0-15 CREDIT HOURS	1	1			
ASU 101-FSE: The ASU Experience	1				Complete CHM 114 or 116; MAT 265 with a minimum grade of "C"
CEE 100: Intro to Civil and Environmental Engineering OR ECN 211/212 (SB): Macroeconomic Principles/ Microeconomic	2 or			Grade of C in	ASU 101-FSE should be completed first
Principles or ECN 201: Economic Issues & Analysis (SB)	3			CEE 100	semester.
CHM 114: General Chemistry for Engineers (SQ) OR		_			An SAT, ACT, Accuplacer, or TOEFL score determines placement into first-year composition
CHM 116: General Chemistry II* (SQ)	4				courses
MAT 265: Calculus for Engineers I	3			Grade of C	ASU Math Placement Exam score determines
					placement in Mathematics course
ENG 101 or 102: First-Year Composition OR					*CHM 113 is a prerequisite and does not apply toward degree credit.
ENG 105: Advanced First-Year Composition** OR					**If ENG 105 a 3 hr applicable elective must also be
ENG 107 or 108: English for Foreign Students	3			Grade of C	taken prior to graduation. See Advisor.
TERM TWO: 16-30 CREDIT HOURS	1				C LA CEP 100 MATERIA ACC PUNA 121
CEE 100: Intro to Civil and Environmental Engineering OR ECN 211/212 (SB): Macroeconomic Principles/ Microeconomic	2 or			Grade of C in	Complete CEE 100; MAT 242, 266; PHY 121 & 122 each with a minimum grade of "C"
Principles or ECN 201: Economic Issues & Analysis (SB)	3			CEE 100	a 122 cach with a minimum grade of
MAT 242: Elementary Linear Algebra	2			Grade of C	
MAT 266: Calculus for Engineers II	3			Grade of C	
PHY 121/122: University Physics I/Laboratory I (SQ)	3/1			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			Grade of C	
TERM THREE: 31-45 CREDIT HOURS	3			Grade of C	
	2			Contact C	• Complete CEE 210; MAT 267, 275, PHY 131
CEE 210: Engineering Mechanics: Statics	3			Grade of C	& 132 each with a minimum grade of "C"
MAT 267: Calculus for Engineers III	3	_		Grade of C Grade of C	Complete First-Year Composition requirement:
MAT 275: Modern Differential Equations (MA) PHY 131/132: University Physics II: Electricity and Magnetism/	3			Grade of C	ENG 101 & 102 or ENG 107 & 108 or ENG 105
Laboratory II (SQ)	3/1			Grade of C	
TERM FOUR: 46-60 CREDIT HOURS					
CEE 212: Engineering Mechanics: Dynamics	3			Grade of C	Complete CEE 212, CEE 213 each with a
CEE 213: Introduction to Deformable Solids	3			Grade of C	minimum grade of "C"
EEE 202: Circuits I	4				
Humanities, Fine Arts & Design (HU) OR Social & Behavioral Science	_				
(SB), AND Cultural Diversity in the US (C) or Global Awareness (G):	3				
Basic Science Elective:	3				
TERM FIVE: 61-75 CREDIT HOURS				~	# Designates Major Course: A minimum cumulative
# CEE 384: Numerical Methods for Engineers (CS) Select 3	3			Grade of C	GPA of 2.30 required in all CEE 3XX courses, a
# CEE 300: Engineering Business Practice (L) (3 hrs)					minimum cumulative GPA of 2.30 required in all
# CEE 321: Structural Analysis and Design (4 hrs)					CEE 4XX courses. NOTE: A maximum of two "D" grades are allowed in all 3XX and 4XX courses
# CEE 341: Fluid Mechanics for Civil Engineers (4 hrs) # CEE 351: Geotechnical Engineering (4 hrs)					combined.
# CEE 351: Geotechnical Engineering (4 ins) # CEE 353: Civil Engineering Materials (3 hrs)					
# CEE 361: Introduction to Environmental Engineering (4 hrs)	10-	_			
# CEE 372: Transportation Engineering (4 hrs)	12			Grade of C in each	
IEE 380: Probability and Statistics for Engineering Problem Solving	3	\boxtimes			
TERM SIX: 76-90 CREDIT HOURS Select remaining 4	1	1			# Designates Major Course: A minimum cumulative
# CEE 300: Engineering Business Practice(L) (3 hrs)					GPA of 2.30 required in all CEE 3XX courses, a
# CEE 321: Structural Analysis and Design (4 hrs)					minimum cumulative GPA of 2.30 required in all
# CEE 341: Fluid Mechanics for Civil Engineers (4 hrs)					CEE 4XX courses. NOTE: A maximum of two "D"
# CEE 351: Geotechnical Engineering (4 hrs) # CEE 353: Civil Engineering Materials (3 hrs)					grades are allowed in all 3XX and 4XX courses combined.
# CEE 361: Introduction to Environmental Engineering (4 hrs)	14-				Comomed
# CEE 372: Transportation Engineering (4 hrs)	16	\boxtimes		Grade of C in each	
TERM SEVEN: 91-105 CREDIT HOURS	1				WD
Select 4 # CEE 281: Surveying (3 hrs)					# Designates Major Course: A minimum cumulative GPA of 2.30 required in all CEE 3XX courses, a
# CEE 412: Pavement Analysis and Design (3 hrs) OR # CEE 483:					minimum cumulative GPA of 2.30 required in all
Highway Materials, Construction and Quality (3 hrs)					CEE 4XX courses. NOTE: A maximum of two "D"
# CEE 420: Steel Structures (3 hrs) OR # CEE 421: Concrete Structures (3 hrs)					grades are allowed in all 3XX and 4XX courses combined.
# CEE 452: Foundation (3 hrs)					
# CEE 481: Civil Engineering Project (3 hrs)					
# Approved technical elective (3 hrs) #CEE 400: Earth Systems Engineering and Management (HU, H) OR	12			Grade of C in each	1
Social & Behavioral Science (SB) AND Cultural Diversity in the US				Grade of C in CEE	
(C) or Global Awareness (G)	3	\boxtimes		400	

Page 1 of 2 Updated: 1/28/09



Major Map: Civil Engineering (Construction Engineering) -Bachelor of Science in Engineering (B.S.E.)

Ira A. Fulton School of Engineering, Tempe Campus Catalog Year: 2009-2010

Course Subject and Title (courses in bold/shading are critical)	Hrs.	Upper Division	Transfer Course/Grade	Minimum Grade if Required	Additional Critical Requirement Notes
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	×		Grade of C in each	# 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. NOTE: A maximum of two "D" grades are allowed in all 3XX and 4XX courses combined.
#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			Grade of C in CEE 400	
# CEE 486: Integrated Civil Engineering Design (L) Humanities, Fine Arts & Design (HU) AND Cultural Diversity in the US (C) or Global Awareness (G)	3			Grade of C	

Graduation Requirements Summary:

Total Hours Regular Curriculum (120)	Total UD Hrs (45 min)	Total Hrs at ASU (30 min)	Cumulative GPA (2.00 minimum)	Major GPA (2.30 Min. CUM GPA in CEE 3XX, 2.30 min CUM GPA in CEE 4XX))	Hrs Resident Credit for Academic Recognition (56 min)	Total Comm. College Hrs. (64 Max)

General University Requirements: Legend

- General Studies Core Requirements:
 - Literacy and Critical Inquiry (L)
 - Mathematical Studies (MA) 0
 - Computer/Statistics/Quantitative applications (CS)
 - Humanities, Fine Arts, and Design (HU) Social and Behavioral Sciences (SB) 0
 - 0
 - Natural Science-Quantitative (SQ) 0
 - Natural Science-General (SG)
- General Studies Awareness Requirements
 - Cultural Diversity in the US (C)
 - Global Awareness (G) 0
 - Historical Awareness (H)
- First-Year Composition

Additional Notes:

Page 2 of 2 Updated: 1/28/09