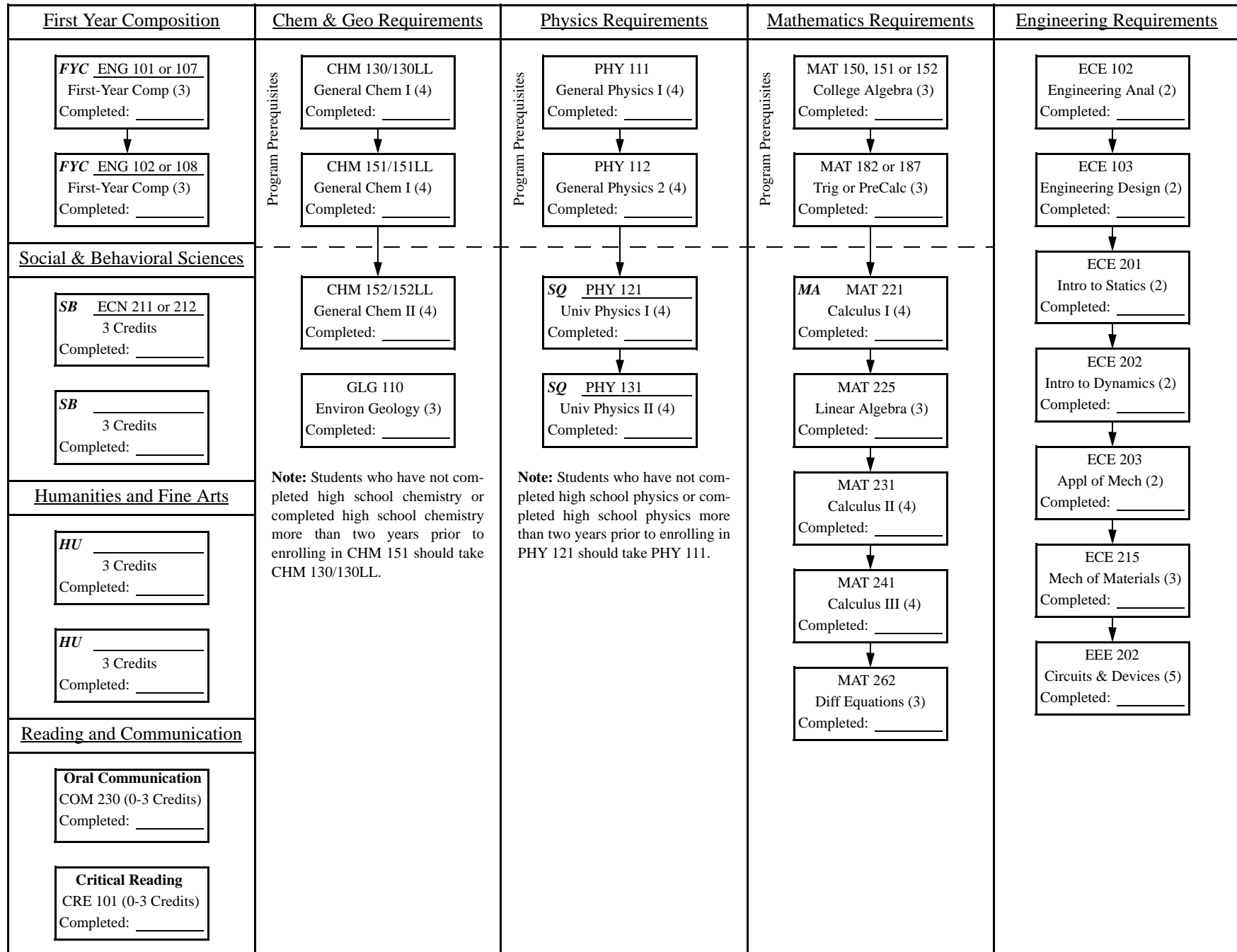




Associate in Science (AS) Degree
MCC/ASU Fulton Civil Engineering Advisement Flow Chart
2009-2010 Catalog Year



Course Subject and Title (courses in bold/shading are critical)	Hrs.	Upper Division	Completed ATP: <input type="checkbox"/> Yes <input type="checkbox"/> No		Completed AGEC: <input type="checkbox"/> Yes <input type="checkbox"/> No	Additional Critical Requirement Notes
			Transfer Course/Grade	Minimum Grade if Required		
TERM ONE: 0-15 CREDIT HOURS						
ASU 101-FSE: 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" • ASU 101-FSE should be completed first semester. • 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 PhysicsI/ 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"/>		Grade of C		<ul style="list-style-type: none"> • Complete CEE 212, CEE 213 each with a minimum grade of "C"
CEE 213: Introduction to Deformable Solids	3	<input type="checkbox"/>		Grade of C		
EEE 202: Circuits I OR MAE 240: Thermofluids 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"/>		Grade of C		<ul style="list-style-type: none"> # 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.
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)						
# CEE 372: Transportation Engineering (4 hrs)	10-12	<input checked="" type="checkbox"/>		Grade of C in each		
IEE 380: Probability and Statistics for Engineering Problem Solving	3	<input checked="" type="checkbox"/>				
TERM SIX: 76-90 CREDIT HOURS						
Select remaining 4						<ul style="list-style-type: none"> # 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 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)						
# CEE 372: Transportation Engineering (4 hrs)	14 - 16	<input checked="" type="checkbox"/>		Grade of C in each		
TERM SEVEN: 91-105 CREDIT HOURS						
#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 type="checkbox"/>		Grade of C in CEE 400		<ul style="list-style-type: none"> • Technical Elective and Design Elective requirements: Complete a total of 2 design electives and 4 technical electives during Term 7 and Term 8. See Advisor for guidance in selection. # 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.
# Technical Elective	3	<input checked="" type="checkbox"/>		Grade of C		
# Technical Elective	3	<input checked="" type="checkbox"/>		Grade of C		
# Design Elective or # Technical Elective	3	<input checked="" type="checkbox"/>		Grade of C		
# Design Elective or # Technical Elective	3	<input checked="" type="checkbox"/>		Grade of C		

Course Subject and Title <i>(courses in bold/shading are critical)</i>	Hrs.	Upper Division	Transfer Course/Grade	Minimum Grade if Required	Additional Critical Requirement Notes
TERM EIGHT: 106-120 CREDIT HOURS					
# 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"/>		Grade of C in CEE 400	<ul style="list-style-type: none"> • Technical Elective and Design Elective requirements: Complete a total of 2 design electives and 4 technical electives during Term 7 and Term 8. See Advisor for guidance in selection. # 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 486: Integrated Civil Engineering Design (L)	4	<input checked="" type="checkbox"/>		Grade of C	
# Technical Elective or # Design Elective	3	<input checked="" type="checkbox"/>		Grade of C	
# Technical Elective or # Design Elective	3	<input checked="" type="checkbox"/>		Grade of C	
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 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)
 - 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: