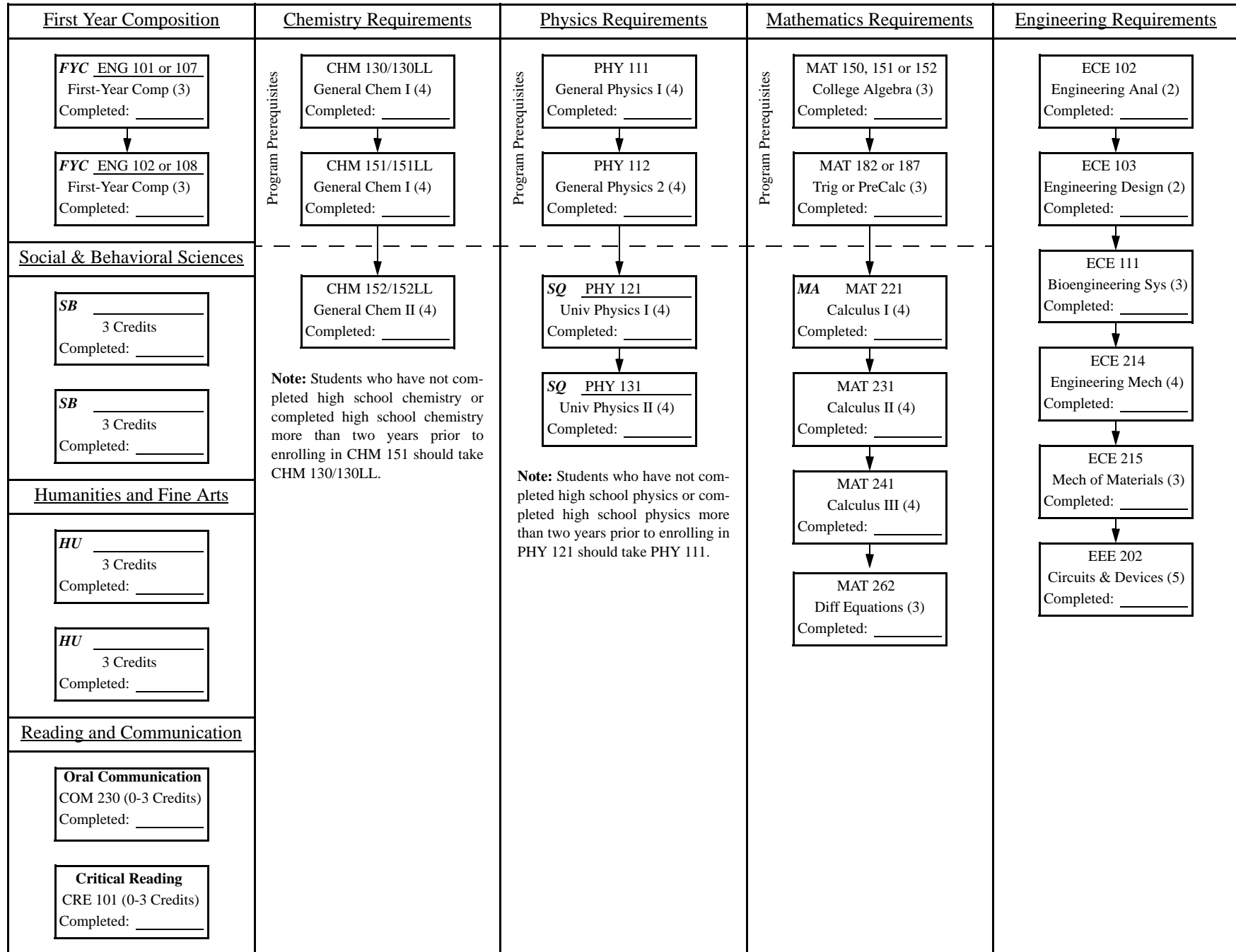




Associate in Science (AS) Degree
MCC/ASU Fulton Aerospace Engineering (Aeronautics) Advisement Flow Chart
2009-2010 Catalog Year



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 AGECE: <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 or 115; MAT 265 each with a minimum grade of “C” + ASU 101-FSE and MAE 100 required for freshmen and should be completed first semester. Non-freshmen see advisor for petitioning replacement electives. • 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 towards degree credit **If ENG 105 a 3 hr applicable elective must also be taken prior to graduation. See Advisor.
CHM 114: General Chemistry for Engineers (SQ) OR CHM 115: General Chemistry with Qualitative Analysis (SQ) OR CHM 116: General Chemistry II * (SQ)	4	<input type="checkbox"/>		Grade of C		
+MAE 100: Introduction to Mechanical and Aerospace Engineering (or Department Approved Elective)	2	<input type="checkbox"/>		Grade of C in MAE 100		
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		
TERM TWO: 16-30 CREDIT HOURS						
MAT 266: Calculus for Engineers II	3	<input type="checkbox"/>		Grade of C	<ul style="list-style-type: none"> • Complete MAT 266; PHY 121, 122 each with a minimum grade of “C” 	
PHY 121/122: University Physics I/ Laboratory I (SQ)	3/1	<input type="checkbox"/>		Grade of C		
BME 111: Engineering Perspectives on Biological Systems	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		
Social & Behavioral Science (SB) AND Cultural Diversity in the US (C), Global Awareness (G), or Historical Awareness (H)	3	<input type="checkbox"/>				
TERM THREE: 31-45 CREDIT HOURS						
MAE 212: Engineering Mechanics	4	<input type="checkbox"/>		Grade of C	<ul style="list-style-type: none"> • Complete ENG 102 or 108 or 105; MAE 212; MAT 275; PHY 131, 132 with a minimum grade of “C” • Complete First Year Composition requirement: ENG 101 & 102 or ENG 107 & 108 or ENG 105 	
MAT 275: Modern Differential Equations	3	<input type="checkbox"/>		Grade of C		
PHY 131/132: University Physics II Electricity and Magnetism/University Physics Laboratory II (SQ)	3/1	<input type="checkbox"/>		Grade of C		
MAT 267: Calculus for Engineers III	3	<input type="checkbox"/>		Grade of C		
TERM FOUR: 46-60 CREDIT HOURS						
MAE 213: Solid Mechanics	3	<input type="checkbox"/>		Grade of C	<ul style="list-style-type: none"> • Complete MAE 213, 240 each with a minimum grade of “C”. 	
MAE 240: Thermofluids I	4	<input type="checkbox"/>		Grade of C		
MAE 214: Computer-Aided Engineering I	1	<input type="checkbox"/>		Grade of C		
EEE 202: Circuits I	4	<input type="checkbox"/>		Grade of C		
MAT 343: Applied Linear Algebra	3	<input checked="" type="checkbox"/>		Grade of C		
TERM FIVE: 61-75 CREDIT HOURS						
MAE 318: Sensors and Controls	5	<input checked="" type="checkbox"/>		Grade of C	<ul style="list-style-type: none"> • MAE 360 and 362 must be completed for L credit. 	
MAE 322: Structural Mechanics	4	<input checked="" type="checkbox"/>		Grade of C		
MAE 360: Aerodynamics (L)	4	<input checked="" type="checkbox"/>		Grade of C		
MAE 384: Numerical Methods for Engineers (CS)	3	<input checked="" type="checkbox"/>		Grade of C		
TERM SIX: 76-90 CREDIT HOURS						
MAE 313: Aircraft Dynamics and Control	3	<input checked="" type="checkbox"/>		Grade of C	<ul style="list-style-type: none"> • MAE 360 and 362 must be completed for L credit. 	
MAE 344: Fundamentals of Aerospace Design	3	<input checked="" type="checkbox"/>		Grade of C		
MAE 362: High-Speed Aerodynamics (L)	4	<input checked="" 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"/>				
Humanities, Fine Arts & Design (HU) AND Cultural Diversity in the US (C), Global Awareness (G), or Historical Awareness (H)	3	<input type="checkbox"/>				
TERM SEVEN: 91-105 CREDIT HOURS						
MAE 415: Vibration Analysis	3	<input checked="" type="checkbox"/>		Grade of C		
MAE 462: Space Vehicle Dynamics and Control	3	<input checked="" type="checkbox"/>		Grade of C		
MAE 463: Propulsion	3	<input checked="" type="checkbox"/>		Grade of C		
Upper division Humanities, Fine Arts & Design (HU) OR Social & Behavioral Science (SB)	3	<input checked="" type="checkbox"/>				
Technical Elective	3	<input checked="" type="checkbox"/>		Grade of C		
TERM EIGHT: 106-120 CREDIT HOURS						
MAE 400: Engineering Profession (L)	3	<input checked="" type="checkbox"/>		Grade of C	<ul style="list-style-type: none"> • See advisor for approved electives. 	
MAE 468: Aerospace Systems Design (L)	3	<input checked="" type="checkbox"/>		Grade of C		
Upper division technical elective	3	<input checked="" type="checkbox"/>		Grade of C		
General Elective	3	<input type="checkbox"/>				
Humanities, Fine Arts & Design (HU) AND Cultural Diversity in the US (C), Global Awareness (G), or Historical Awareness (H)	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 (2.00 minimum GPA)	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: