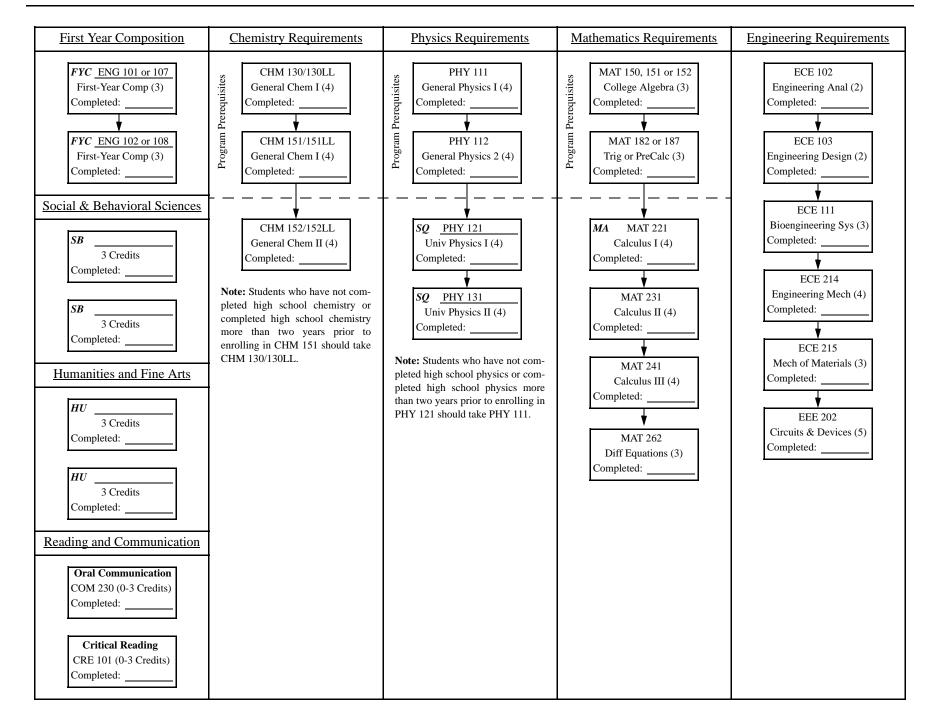
Associate in Science (AS) Degree MCC/ASU Fulton Mechanical Engineering Advisement Flow Chart 2009-2010 Catalog Year





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

				P: Yes No	Completed AGEC: Yes No		
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 ONE: 0-15 CREDIT HOURS	1118.	Division	Course/Grade	Required	Additional Critical Requirement Potes		
+ASU 101-FSE: The ASU Experience	1				• Complete CHM 114 or 116 or 115; MAT 265		
CHM 114: General Chemistry for Engineers (SO) OR	1				each with a minimum grade of "C"		
CHM 115: General Chemistry with Qualitative Analysis (SQ) OR					+ 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		
CHM 116: General Chemistry II* (SQ)	4			Grade of C			
+MAE 100: Intro to Mechanical and Aerospace Engineering (or Department Approved Elective)	2			Grade of C in MAE 100			
MAT 265: Calculus for Engineers I (MA)	3			Grade of C			
ENG 101 or 102: First-Year Composition OR	3	ш		Grade of C	determines placement into first-year composition		
ENG 105: Advanced First-Year Composition** OR					o a SU 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.		
ENG 107 or 108: English for Foreign Students	3			Grade of C			
Social & Behavioral Science (SB) AND Cultural Diversity in the US							
(C), Global Awareness (G), or Historical Awareness (H)	3						
TERM TWO: 16-30 CREDIT HOURS		_					
MAT 266: Calculus for Engineers II	3			Grade of C	Complete MAT 266; PHY 121, 122 each with		
PHY 121/122: University Physics I/ Laboratory I (SQ)	3/1			Grade of C	a minimum 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 Humanities, Fine Arts & Design (HU) AND Cultural Diversity in the	3			Grade of C	-		
US (C), Global Awareness (G), or Historical Awareness (H)	3						
TERM THREE: 31-45 CREDIT HOURS				•	<u></u>		
					• Complete ENG 102 or 108 or 105; MAE 212;		
MAE 212: Engineering Mechanics	4			Grade of C	MAT 275; PHY 131, 132 each with a minimum		
MAT 275: Modern Differential Equations	3			Grade of C	• Complete First Year Composition requirement: ENG 101 & 102 or ENG 107 & 108 or ENG 105		
PHY 131/132: University Physics II Electricity and Magnetism/	3/1			Grade of C			
Laboratory II							
MAE 214: Computer-Aided Engineering I MAT 267: Calculus for Engineers III	3			Grade of C Grade of C			
TERM FOUR: 46-60 CREDIT HOURS	3			Grade of C			
MAE 213: Solid Mechanics	3			Grade of C	Complete MAE 213, 240 each with a minimum grade of "C".		
MAE 240: Thermofluids I	4			Grade of C			
EEE 202: Circuits I	4			Grade of C			
MAT 343: Applied Linear Algebra	3			Grade of C			
MSE 250: Structure and Properties of Materials	3			Grade of C			
TERM FIVE: 61-75 CREDIT HOURS	3			Grade of C			
BME 111: Engineering Perspectives on Biological Systems (or dept							
approved BIO)	3						
MAE 322: Structural Mechanics	4	\boxtimes		Grade of C			
MAE 340 Thermofluids II	3	\boxtimes		Grade of C			
MAE 384: Numerical Methods for Engineers (CS)	3	\boxtimes		Grade of C			
Humanities, Fine Arts & Design (HU) AND Cultural Diversity in the	2	™					
US (C), Global Awareness (G), or Historical Awareness (H)	3	\boxtimes	<u></u> _				
TERM SIX: 76-90 CREDIT HOURS	2	M		Grada of C			
MAE 319: Computer-Aided Engineering II	2	<u> </u>	1	Grade of C	1		
MAE 318: Sensors and Controls	5	⊠ ⊠		Grade of C	1		
MAE 342: Principles of Mechanical Design	3			Grade of C	1		
Technical Elective	3	\boxtimes		Grade of C			
TERM SEVEN: 91-105 CREDIT HOURS	_			G 1 66			
MAE 488: Mechanical Engineering Design I	3			Grade of C	1		
MAE 491: Experimental Mechanical Engineering (L)	3			Grade of C	-		
Technical Elective	3			Grade of C	-		
Social & Behavioral Science (SB) AND Cultural Diversity in the US (C), Global Awareness (G), or Historical Awareness (H)	3						
UD Humanities, Fine Arts & Design (HU) OR Social & Behavioral					1		
Science (SB)	3	\boxtimes					
TERM EIGHT: 106-120 CREDIT HOURS							
MAE 400: Engineering Profession (L)	3	\boxtimes		Grade of C	See advisor for approved General Electives.		
MAE 489: Mechanical Engineering Design II	3	\boxtimes		Grade of C			
Technical Elective	3	\boxtimes		Grade of C			
Technical Elective	3	\boxtimes		Grade of C			

Page 1 of 2 Updated: 12/30/08



Major Map: Mechanical Engineering – Bachelor of Science in Engineering (B.S.E.)

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

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

Additional Notes:

Page 2 of 2 Updated: 12/30/08