



ASU Requirement for all incoming Freshmen ASU 101 The ASU Experience I. English Proficiency (6 hrs) (University requirement – "C" min required) +ENG 101 / 107 First-Year Comp (3) and +ENG 102 / 108 First-Year Comp (3) Or, if eligible (see Catalog for eligibility), +ENG 105 Adv First-Year Comp (3) and An Applicable Elective (3) – see Department Sub Total (I) II. General Requirements (15 hrs) (See Catalog for approved courses)	AGEC-A, AGEC-B, AGEC-S; B. Mathematical Studies (12 hrs) +MAT 265 Calc for Engrs I +MAT 266 Calc for Engrs II +MAT 267 Calc for Engrs III	AS 3	rs Cr	□ No Trans From Gr
Asu Requirement for all incoming Freshmen Asu 101 The Asu Experience I. English Proficiency (6 hrs) (University requirement – "C" min required) +ENG 101 / 107 First-Year Comp (3) and +ENG 102 / 108 First-Year Comp (3) Or, if eligible (see Catalog for eligibility), +ENG 105 Adv First-Year Comp (3) and An Applicable Elective (3) – see Department Sub Total (I) II. General Requirements (15 hrs) (See Catalog for approved courses)	B. Mathematical Studies (12 hrs) +MAT 265 Calc for Engrs I +MAT 266 Calc for Engrs II	H AS	rs Cr	Trans
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Or, if eligible (see Catalog for eligibility), +ENG 105 Adv First-Year Comp (3) and An Applicable Elective (3) – see Department Sub Total (I) II. General Requirements (15 hrs) (See Catalog for approved courses)	# C. Lower Division Engr (22 hrs)	3		
+ENG 105 Adv First-Year Comp (3) and An Applicable Elective (3) – see Department Sub Total (I) II. General Requirements (15 hrs) (See Catalog for approved courses)	+MAE 100 Intro to ME & AE (CS)	3		
An Applicable Elective (3) – see Department Sub Total (I) II. General Requirements (15 hrs) (See Catalog for approved courses)	+MAE 212 Engineering Mechanics	4		
Sub Total (I) II. General Requirements (15 hrs) (See Catalog for approved courses)	MAE 213 Mechanics of Solids	3		
	MAE 214 CAE I	1		
	MAE 240 Thermofluids I	4		
A. Humanities & Social Sciences (15 hrs min)	MSE 250 Struc & Prop of Materials	3		
(Required: 1 course upper division; plus a minimum of two courses that satisfy three awareness areas: cultural (C), global (G), and historical (H). Double counting is permissible between HU or SB and the awareness areas and	EEE 202 Circuits I	4		
also within the awareness areas.)	Sub Total (III)			
Humanities, Fine Arts, and Design (6 hrs min)(HU)	IV. Required Upper Division Course	s (47 hrs)		
	#MAE 318 Sensors and Controls	5		
	#MAE 322 Structural Mechanics	4		
	#MAE 323 CAE II	2		
Social/Behavioral Sciences (6 hrs min)(SB)	#MAE 340 Thermofluids II	3		
	#MAE 342 Principles of Design	3		
	#MAE 384 Numerical Methods (CS)	3		
	#MAE 400 Engineering Profession (L)	3		
Awareness Areas	#MAE 488 ME Design I	3		
Cultural	#MAE 489 ME Design II	3		
Global	#MAE 491 Experimental Mech Engr (A	L) 3		
Historical	+MAT 343 Applied Linear Algebra	3		
B. Literacy/Critical Inquiry (6 hrs)	Technical Electives (12 hrs)			
#L: MAE 491 Thermofluids Lab Satisfied by Courses in				
#L: MAE 400 Engineering Profession Major				
C. Natural Sciences/Basic Sciences (8 hrs				
+SQ: PHY 121/122 Physics I & Lab I Satisfied by Courses in				
+SQ: PHY 131/132 Physics II & Lab II Major	Sub Total (IV)			
D. Mathematical Studies (6 hrs) – mark after taken	Total Upper Division(minimum 45	reauir	·od)
#CS: MAE 100 Intro to ME & AE Satisfied by Courses in	+ A minimum grade of "C" (2.0) required		requi	cu)
+MA: MAT 275 Modern Diff Eqs Major	# Designates Major Course: A minimum co	umulative GP	4 of 2.0) required
Sub Total (II)	Designates a skill-set course			
III. Required Lower Division Courses (52 hrs)	Only 4 hours of CHM 115 will apply towa			1
A. Natural Sciences/Basic Sciences (18 hrs)	² CHM 113 is prerequisite and does not app ³ Must complete lecture and lab to receive S		gree cre	111
BME 111 Engr Persp on Bio Sys OR	1	~		
BCH 361 Princ of Biochemistry	Graduation Requirements: Regular (Curriculum –	- 120 H	ours
+CHM 114, 115 ^{1, 2} , or 116 ² Chemistry (SQ) 4			 -	1
+CHM 240 Intro Physical Chem or		Hrs/ASU	Tr Hrs	Total
+CHM 240 Intro. Physical Chem	I. English Proficiency			
+ PHY 121 Physics I (SQ) ³ 3	II. General Requirements			
+ PHY 122 Physics Lab I $(SQ)^3$ 1	III. Required Lower Division			
+ PHY 131 Physics II $(SQ)^3$ 3	IV. Required Upper Division			
+ PHY 132 Physics Lab II $(SQ)^3$	Total Program Hours			