

Universal General Education Transfer Component (UGETC)

English Composition (6 SCH)				The following two English composition courses are required.				
Prefix	Course Name	Credit Hours	Pre-requisites	University Course Equivalent	Credit Hours	Required or Preferred by Major	Notes	
ENG 111	Expository Writing	3	None	RC 1000	3	Required		
ENG 112	Argument-Based Research	3	ENG 111	RC 2001	3	Required		
Total Credit Hours Required		6			6			
Humanities/Fine Arts (6 SCH)				Students will select two courses from at least two different disciplines:				
Prefix	Course Name	Credit Hours	Pre-requisites	University Course Equivalent	Credit Hours	Required or Preferred by Major	Notes	
ART 111	Art Appreciation	3	None	ART 2011	3			
ART 114	Art History Survey I	3	None	ART 2030	3			
ART 115	Art History Survey II	3	None	ART 2130	3			
COM 231	Public Speaking	3	None	COM 2101	3			
ENG 231	American Literature I	3	ENG 112, 113 or 114	ENG 2350	3			
ENG 232	American Literature II	3	ENG 112, 113 or 114	ENG 2350	3			
MUS 110	Music Appreciation	3	None	MUS 2011	3			
MUS 112	Introduction to Jazz	3	None	MUS 2014	3			
PHI 215	Philosophical Issues	3	ENG 111	PHL Elective	3			
PHI 240	Introduction to Ethics	3	ENG 111	PHL 2000	3			
Total Credit Hours Required		6			9			
Social/Behavioral Science (6 SCH)				Students will select two courses from at least two different disciplines:				
Prefix	Course Name	Credit Hours	Pre-requisites	University Course Equivalent	Credit Hours	Required or Preferred by Major	Notes	
ECO 251	Principles of Microeconomics	3	None	ECO 2030	3			
ECO 252	Principles of Macroeconomics	3	None	ECO 2040	3			
HIS 111	World Civilizations I	3	None	HIS 1101	3			
HIS 112	World Civilizations II	3	None	HIS 1102	3			
HIS 131	American History I	3	None	HIS 1200	3			
HIS 132	American History II	3	None	HIS 1200	3			
PSY 150	General Psychology	3	None	PSY 1200	3			
POL 120	American Government	3	None	P S 1100	3			
SOC 210	Introduction to Sociology	3	None	SOC 1000	3			
Total Credit Hours Required		6			6			
Mathematics (8 SCH)				Students will select two course from the following:				
Prefix	Course Name	Credit Hours	Pre-requisites	University Course Equivalent	Credit Hours	Required or Preferred by Major	Notes	
MAT 171	Precalculus Algebra	4	None	MAT 1020	4			
MAT 172	Precalculus Trigonometry	4	MAT 171	GEP MAT	4			
MATH 263	Brief Calculus	4	MAT 171	MAT 1030	4			
MATH 271	Calculus I	4	MAT 172	MAT 1110	4	Required		
Total Credit Hours Required		8			8			
Natural Sciences (8 SCH)				Students will select 8 SCH from the following courses:				
Prefix	Course Name	Credit Hours	Pre-requisites	University Course Equivalent	Credit Hours	Required or Preferred by Major	Notes	
AST 151/151A	General Astronomy I and lab I	4	None	AST 1001	4			
BIO 110	Principles of Biology	4	None	BIO 1201/BIO 1204	4			
BIO 111	General Biology I	4	None	BIO 1201/BIO 1204	4		must take both BIO 111 and BIO 112	
BIO 112	General Biology II	4	BIO 111	BIO 1202/BIO 1205	4		must take both BIO 111 and BIO 112	
CHM 151	General Chemistry I	4	None	CHE 1101/CHE 1110	4		must take both CHM 151 and CHM 152	
CHM 152	General Chemistry II	4	CHM 151	CHE 1102/CHE 1120	4		must take both CHM 151 and CHM 152	
GEL 111	Introduction Geology	4	None	GLY 1101	4			
PHY 110/110A	Conceptual Physics and Lab	4	None	PHY 1100	4		must take course with lab	
PHY 151	College Physics I	4	MAT 171	PHY 1103	4	Required	must take PHY 151 and PHY 152	
PHY 152	College Physics II	4	PHY 151	PHY 1104	4	Required	must take PHY 151 and PHY 152	
PHY 251	General Physics I	4	MAT 271	PHY 1150	4		must take PHY 251 and PHY 252	
PHY 252	General Physics II	4	MAT 272 and PHY 251	PHY 1151	4		must take PHY 251 and PHY 252	
Total Credit Hours Required		8			8			
Total UGETC Hours		34			34			

Additional General Education Courses (11-12 SHC) : These courses must be classified as UGETC or general education within the CAA.							
Prefix	Course Name	Credit Hours	Pre-requisites	University Course Equivalent	Credit Hours	Category	Notes
CSC 120	Computing Fundamentals I	3		CS Elective	3	Elective	pre-req for CSC 130
MAT 272	Calculus II	4	MAT 271	MAT 1120	4	GEC	
UGETC/GEC		3			3	UGETC/GEC	
UGETC/GEC		3			3	UGETC/GEC	
Total Credit Hours Required		13			13		

Total General Education Hours Required 47 47

Other REQUIRED HOURS (14-15 SHC): These courses must be classified as pre-major, elective or general education within the CAA.							
Prefix	Course Name	Credit Hours	Pre-requisites	University Course Equivalent	Credit Hours	Category	Notes
ACA 122	College Transfer Success	1	None		1	GEC	required by CAA
CSC 130	Computing Fundamentals II	3	CSC 120	CS 1440	3	Pre-Major	
MAT 280	Linear Algebra	4	MAT 272	MAT 2240	4	Pre-Major	
Pre-Major/Elective/GEC		3			3	Pre-Major/Elective/GEC	
Pre-Major/Elective/GEC		3			3	Pre-Major/Elective/GEC	

Other Required Hours (15-16 SCH) 14 14

Total Semester Credit Hours in Program: 61

3rd - 5th Year Plan: BS, Computer Science							
Semester	Course	Hours	Notes				
SU	CS 1440 Computer Science I	4	If taken at community college, start coursework in fall				
SU	MAT 2240 Linear Algebra	4	If taken at community college, start coursework in fall		8		
5	CS 1100 Discrete Mathematics	3	Major Requirement				
5	CS 2440 Computer Science II	4	Major Requirement				
5	Free Elective	3					
5	Free Elective	2			12		
6	CS 2490 Intro to Theoretical Computer Science	3	Major Requirement				
6	CS 2450 Intro to Computer Systems	3	Major Requirement				
6	CS 3460 Data Structures	3	Major Requirement				
6	CS 3430 Database	3	Major Requirement				
6	CS Elective Course 1	3	Major Requirement		15		
7	CS 3481 Computer Systems I	3	Major Requirement				
7	CS 3490 Programming Languages	3	Major Requirement				
7	CS 3667 Software Engineering	3	Major Requirement				
7	CS 3100 Junior Seminar	2	Writing in the Discipline				
7	CS Elective Course 2	3	Major Requirement		14		
8	CS 3482 Computer Systems II	3	Major Requirement				
8	STT 3850 Statistical Analysis I	4	Major Requirement				
8	CS Science Requirement	4	Major Requirement				
8	CS Elective Course 3	3	Major Requirement		14		
9	CS 4100 Senior Seminar	2	Major Requirement				
9	CS 4800 CAPSTONE	3	Major Requirement				
9	CS Science Requirement	4	Major Requirement				
9	Free Elective	3			12		
					67-75		
					61 transfer hours		
					128-136 hours for graduation		

Residency Requirements:
• 31 hours overall must be from ASU
• 18 hours in the major must be from ASU
• 9 hours in the minor must be from ASU
• Final 30 hours must be courses taken through ASU (includes internships, study abroad taken through ASU)