

### Universal General Education Transfer Component (UGETC)

English Composition (6 SCH): Complete BOTH English courses								
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		
<b>Total Credit Hours Required</b>		<b>6</b>			<b>6</b>			

Humanities/Fine Arts (6 SCH): Select 2 classes 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 2105	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			
ENG 241	British Literature I	3	ENG 112, 113 or 114	ENG 2050	3			
ENG 242	British Literature II	3	ENG 112, 113 or 114	ENG 2050	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			
<b>Total Credit Hours Required</b>		<b>6</b>			<b>9</b>			

Social /Behavioral Science (6 SCH): Select 2 classes 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			
<b>Total Credit Hours Required</b>		<b>6</b>			<b>6</b>			

Mathematics (8 SCH): Select 2 courses								
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	MAT 1025	4			
MAT 263	Brief Calculus	4	MAT 171	MAT 1035	4			
MAT 271	Calculus I	4	MAT 172	MAT 1110	4	Required		
MAT 272	Calculus II	4	MAT 271	MAT 1120	4	Required		
<b>Total Credit Hours Required</b>		<b>8</b>			<b>8</b>			

Natural Sciences (8 SCH): Select 2 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			must take PHY 151 and PHY 152
PHY 152	College Physics II	4	PHY 151	PHY 1104	4			must take PHY 151 and PHY 152
PHY 251	General Physics I	4	MAT 271	PHY 1150	4	Required		must take PHY 251 and PHY 252
PHY 252	General Physics II	4	MAT 272 and PHY 251	PHY 1151	4	Required		must take PHY 251 and PHY 252
<b>Total Credit Hours Required</b>		<b>8</b>			<b>8</b>			

**Total UGETC Hours**

34

34

Additional General Education Courses (11-12 SHC)							
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
UGETC/GEC		3			3	UGETC/GEC	
UGETC/GEC		3			3	UGETC/GEC	
UGETC/GEC		3			3	UGETC/GEC	
<b>Total Credit Hours Required</b>		12			12		

**Total General Education Hours Required**

46

46

Other REQUIRED HOURS (14-15 SHC)							
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: 60**

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	8
SU	MAT 2240 Linear Algebra	4	If taken at community college, start coursework in fall	
5	CS 1100 Discrete Mathematics	3	Major Requirement	12
5	CS 2440 Computer Science II	4	Major Requirement	
5	Free Elective	3		
5	Free Elective	2		15
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	
7	CS 3481 Computer Systems I	3	Major Requirement	14
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	12
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
				60 transfer hours
				127-135 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)