

### Universal General Education Transfer Component (UGETC)

English Composition (6 SCH)		The following <u>two</u> 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		
<b>Total Credit Hours Required</b>		<b>6</b>			<b>6</b>			

Humanities/Fine Arts (6 SCH)		Students will select <u>two</u> 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			
<b>Total Credit Hours Required</b>		<b>6</b>			<b>9</b>			

Social /Behavioral Science (6 SCH)		Students will select <u>two</u> 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			
<b>Total Credit Hours Required</b>		<b>6</b>			<b>6</b>			

Mathematics (8 SCH)		Students will select <u>two</u> 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		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		
<b>Total Credit Hours Required</b>		<b>8</b>			<b>8</b>			

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	Required	must take both CHM 151 and CHM 152	
CHM 152	General Chemistry II	4	CHM 151	CHE 1102/CHE 1120	4	Required	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		must take PHY 251 and PHY 252	
PHY 252	General Physics II	4	MAT 272 <u>and</u> PHY 251	PHY 1151	4		must take PHY 251 and PHY 252	
<b>Total Credit Hours Required</b>		<b>8</b>			<b>8</b>			

**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
PHY 251	General Physics I	4	MAT 271	PHY 1150	4	UGETC	Required for major
MAT 272	Calculus II	4	MAT 271	MAT 1120	4	GEC	Required for major
BIO 111	General Biology	4		BIO 1801	4	UGETC	Required for major
<b>Total Credit Hours Required</b>		<b>12</b>			<b>13</b>		

**Total General Education Hours Required** 46 46

**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
PHY 252	General Physics II	4	MAT 272 & PHY 251	PHY 1151	4	UGETC	Required for major
GLY 111	Introduction to Geology	4		GLY 1101	4	UGETC	Required by major
Pre-Major/GEC/Elective		3			3	Pre-Major/GEC/Elective	
Pre-Major/GEC/Elective		3			3	Pre-Major/GEC/Elective	

**Other Required Hours (15-16 SCH)** 15 14

**Total Semester Credit Hours in Program: 61**

- Degree requires both Physics and Chemistry sequences and will serve as prerequisites for future coursework.
- Physics 1150 (251) & 1151 (252) must be complete prior to fall semester of junior year as prerequisite to CHE 3301 & 3303.

**3rd - 4th Year Plan: BS, Chemistry, Secondary Education**

Semester	Course	Hours	Notes	
SU 1	CI 2300 Teaching & Learning in the Digital Age	2	Required prior to admission to College of Education	8
SU 1	FDN 2400 Critical Perspectives on Teaching & Learning	2	Required prior to admission to College of Education	
SU 2	PSY 3010 Psychology Applied to Teaching	3	Required prior to admission to College of Education	
5	CHE 2101/2102 OR CHE 2201/2203 & 2202/2204	4	See Program of Study	14
5	CHE 2210/2211 Quantitative Analysis	4	Major Requirement	
5	SPE 3300 Creating Inclusive Learning Communities	3	Major Requirement	
5	Free Elective	3		
6	CHE 2202/2204	4	Major Requirement	
6	CHE Elective 1	4	CHE 4580, 2550, 2400 or 2526 recommended	15
6	CI 3400 Policies & Practice in Educational Assessment	2	Major Requirement	
6	GS 4403 Teaching Science in Middle and High School	3	Major Requirement	
6	CHE 3521 Secondary Science Field Experience	1	Major Requirement	
6	CHE 3000 Introduction to Chemical Research	1	Major Requirement	
7	CHE 3301 & 3303 Physical Chemistry I	4	Offered Fall Only - Writing in the Discipline	
7	CHE 3404 Inorganic Chemistry	3	Major Requirement	
7	RE 4630 Reading in the Content Areas	2	Major Requirement	12
7	CHE Elective 2	3	CHE 4580, 2550, 2400 or 2526 recommended	
8	CI 4900 Student Teaching	12	CAPSTONE	12
				61
				61 transfer hours
				122 hours for graduation

- Reading & English proficiencies required.
  - Admission to Teacher Education is required. To be admitted to the Teacher Education Program students must take and satisfy testing requirements for Reading, Writing and Math areas of the PRAXIS (PPST or CBT).
  - Licensure requires a cumulative 2.5 GPA.
- 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)