

### 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		
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)		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	Required	
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	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	
MATH 271	Calculus II	4	MAT 271	MAT 1120	4		
<b>Total Credit Hours Required</b>		<b>8</b>			<b>8</b>		

Natural Sciences (8 SCH)		Students will select <u>8 SCH</u> 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 <i>and</i> PHY 251	PHY 1151	4		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) : 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
MAT 152	Statistics	4		STT 2810	4	UGETC	Required by major
BIO 111	General Biology I	4		BIO 1801	4	UGETC	
UGETC/GEC		3			3	UGETC/GEC	
UGETC/GEC		3			3	UGETC/GEC	
<b>Total Credit Hours Required</b>		14			14		

**Total General Education Hours Required** 48 48

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
BUS 110	Introduction to Business	3		BUS 1050	3	Pre-Major	Required by major
ACC 120	Principals of Financial Accounting	3		ACC 2110 (will satisfy ACC 1050 required for major)	3	Pre-Major	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)** 13 13

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

3rd - 4th Year Plan: BS, Fermentation Sciences				
Semester	Course	Hours	Notes	
SU	BIO 2600 Cell Biology	3	Major Requirement	3
5	FER 1000 Principals of Fermentation Science	3	Major Requirement	
5	FER 2000 Social Implications of Fermented Beverages	3	Major Requirement	
5	CHE 2101 & 2102 Fundamentals of Organic Chemistry & Lab	4	Major Requirement	
5	NUT 1202 Basic Food Science	3	Major Requirement	
5	ENG 3090 OR ENG 3100	3	Prerequisite for ENG 3700	16
6	CHE 2210 & 2211 Quantitative Analysis & Lab	4	Major Requirement	
6	BIO 3308 Microbiology	4	Major Requirement	
6	ENG 3700 Technical Writing	3	Major Requirement	
6	MKT 3050 Principals of Marketing	3	Major Requirement	14
7	FER 3200 Facility Design & Operation	3	Writing in the Discipline	
7	NUT 3210 Beverage Management	3	Major Requirement	
7	FER Science Elective Course 1	3	Major Requirement	
7	Focus Area Elective Course 1	3	Major Requirement	
7	Business Elective Course	3	Major Requirement	15
8	CHE 4580 Biochemistry I	3	Major Requirement	
8	FER 4300 Sensory Analysis of Wine & Beer	3	CAPSTONE	
8	FER Science Elective Course 2	3	Major Requirement	
8	Focus Area Elective Course 2	3	Major Requirement	
8	Free Elective	1	Take enough Free Electives to reach 122 hours	13
				61
				61 transfer hours
				122 hours for graduation

**Residency Requirements:**

- 31 hours 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)