

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 Hour	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 Hour	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 Hour	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 Hour	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	Required	
MATH 263	Brief Calculus	4	MAT 171	MAT 1030	4		
MAT 271	Calculus I	4	MAT 172	MAT 1110	4		
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 Hour	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	See Notes	must take both BIO 111 and BIO 112
BIO 112	General Biology II	4	BIO 111	BIO 1202/BIO 1205	4	See Notes	must take both BIO 111 and BIO 112
CHM 151	General Chemistry I	4	None	CHE 1101/CHE 1110	4	See Notes	must take both CHM 151 and CHM 152
CHM 152	General Chemistry II	4	CHM 151	CHE 1102/CHE 1120	4	See Notes	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	See Notes	must take PHY 151 and PHY 152
PHY 152	College Physics II	4	PHY 151	PHY 1104	4	See Notes	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 Hour	Category	Notes
HUM 110	Technology and Society	3		TEC 2029	3	GEC	Required by major
UGETC/GEC		3			3	UGETC/GEC	
UGETC/GEC		3			3	UGETC/GEC	
UGETC/GEC		3			3	UGETC/GEC	
Total Credit Hours Required		12			12		

Total General Education Hours Required 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 Hour	Category	Notes
ACA 122	College Transfer Success	1	None		1	GEC	required by CAA
Pre-Major/GEC/Elective		3			3	Pre-Major/GEC/Elective	
Pre-Major/GEC/Elective		3			3	Pre-Major/GEC/Elective	
Pre-Major/GEC/Elective		3			3	Pre-Major/GEC/Elective	
Pre-Major/GEC/Elective		3			3	Pre-Major/GEC/Elective	
Pre-Major/GEC/Elective		2			2	Pre-Major/GEC/Elective	

Other Required Hours (15-16 SCH) 15

Total Semester Credit Hours in Program: 61

A Science sequence is required for this degree. Students should choose Biology, Chemistry OR Physics.

3rd - 4th Year Plan: Sustainable Technology			
Semester	Course	Hours	Notes
5	TEC 2029 Society & Technology	3	If taken at community college, take Free Elective
5	TEC 1708 Construction Technology & Building Codes	3	Or another Intro TEC & ENV Design Course
5	IND 2110 Introduction to Fabrication	3	Major Requirement
5	TEC 2601 Energy Issues & Technology	3	Major Requirement
5	Interdisciplinary Course 1	3	Major Requirement
6	TEC 1728 Architectural Graphics & Computer Modeling	3	Major Requirement
6	TEC 3604 OR 3605 OR 3606 OR 3748	3	Major Requirement
6	TEC 2718 Building Mechanical Systems	3	Major Requirement
6	TEC 3807 Construction Safety	1	Online Safety Course
6	Technical Elective 1	3	Major Requirement
6	Interdisciplinary Course 2	3	Major Requirement
7	Introductory Elective Course 1	3	GRA 1022, IND 2012, 3004, TEC 1023, PHO 1022
7	Introductory Elective Course 2	3	GRA 1022, IND 2012, 3004, TEC 1023, PHO 1022
7	TEC 3604 OR 3605 OR 3606 OR 3748	3	Major Requirement
7	TEC 3638 Foundations of Appropriate Technology	3	Writing in the Discipline
7	Interdisciplinary Course 3	3	Major Requirement
7	Technical Elective 2	3	Major Requirement
8	TEC 4608 Photovoltaic System Design & Construction	3	See program of study for pre-reqs
8	TEC 4618 Sustainable Building Design & Construction	3	See program of study for pre-reqs
8	TEC 4628 Solar Thermal Energy Technology	3	See program of study for pre-reqs
8	TEC 4711 Computer Modeling of Renewable Energy Systems	3	See program of study for pre-reqs
8	Interdisciplinary Course 4	3	See program of study for pre-reqs
9	TEC 4607 Wind & Hydro Power Technology	3	See program of study for pre-reqs
9	TEC 4638 Contemporary Issues in Appropriate Technology	3	CAPSTONE
9	TEC 4700 Biofuels Technology	3	Major Requirement
9	Technical Elective 3	3	Major Requirement
9	TEC 3604 OR 3605 OR 3606 OR 3748	3	Major Requirement

15
16
18
15
15
79
61 transfer hours
140 hours for graduation

The following substitutions will be acceptable, up to a maximum of 12 hours:

<u>Community College Course</u>	<u>ASU Course</u>
ALT 120, Renewable Energy Technology	TEC 2601, Energy Issues & Technology
ELC 220, Photovoltaic Sys Tech	TEC 4608, Photovoltaic Sys Design & Const.
ALT 250, Thermal Systems	TEC 4628, Solar Thermal Energy Technology
SST 130, Modeling Renewable Energy	TEC 4711, Computer Modeling of Renewable Energy Systems
CST 111, Construction I	TEC 1708, Construction Tech & building Codes
SST 140, Green Building	TEC 4618, Sustainable Building Design & Construction
CST 150, Building Science	TEC 3748, Building Science

- ENV 110, BIO 140, SST 110, SST 120, and SST 210 for Interdisciplinary Coursework, not included in 12 hour limit.
- ARC 131, Building Codes or CMT 120, Codes & Inspections for TEC Electives or Intro TEC Courses
- Other substitutions are possible; each student's transfer credit will be individually evaluated and applied accordingly.

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)