

Critical Requirements: Students who follow the 2008-2009 catalog year and are entering ASU as either a first-time freshman or transfer from any Arizona public university or Arizona community college must complete critical requirements.

Major Map: Earth and Space Exploration -Bachelor of Science (B.S.) College of Liberal Arts and Sciences, Tempe Campus Catalog Year: 2008-2009

			Completed ATP: Yes No		Completed AGEC: Yes No		
Course Subject and Title (courses in bold/shading are critical)	Hrs.	Upper Division	Transfer Course/Grade	Minimum Grade if Required	Additional Critical Requirement Notes		
TERM ONE: 0-15 CREDIT HOURS	1110.	Division	Course, Grade	rioquilou	Fidulional Critical Requirement (vice)		
	3			Grade of C	An SAT, ACT, Accuplacer, or TOEFL score		
SES 100: Introduction to Exploration SES 101: Earth, Solar System, and Universe I	3			Grade of C	determines placement into first-year		
SES 103: Earth, Solar System, and Universe Laboratory I	1			Grade of C	composition courses ASU Math Placement Exam score determines		
ENG 101 or 102: First-Year Composition or	1			Grade of C	placement in Mathematics course		
ENG 105: Advanced First-Year Composition or	_				Consult academic advisor for Learning Community Academic Success Clusters and		
ENG 107 or 108: English for Foreign Students	3			Grade of C	Community, Academic Success Clusters and First Year Seminar options		
MAT 170 if needed or elective	3			Grade of C			
Social& Behavioral Science (SB)	3						
TERM TWO: 16-30 CREDIT HOURS							
CHM 113: General Chemistry I (SQ)	4			Grade of C			
MAT 265: Calculus for Engineers I (MA)	3			Grade of C	7		
SES 102: Earth, Solar System, and Universe II	3			Grade of C	7		
SES 104: Earth, Solar System, and Universe Laboratory II	1			Grade of C			
ENG 101 or 102: First-Year Composition or							
ENG 105: Advanced First-Year Composition or ENG 107 or 108: English for Foreign Students	3			Grade of C			
TERM THREE: 31-45 CREDIT HOURS	3			Grade of C			
CHM 116: General Chemistry II (SQ)	4			Grade of C	First Year Composition must be completed by		
MAT 266: Calculus for Engineers II	3			Grade of C	the end of semester 3		
SES 210: Engineering Systems and Experimental Design	3			Grade of C	=		
Humanities, Fine Arts & Design (HU) and Cultural Diversity in the	3			Grade of C	=		
US (C), Global Awareness (G) or Historical Awareness (H):	3						
General Elective	3						
TERM FOUR: 46-60 CREDIT HOURS							
GLG 321: Mineralogy	3	\boxtimes		Grade of C			
PHY 121: University Physics I: Mechanics	3			Grade of C			
PHY 122: University Physics Laboratory I	1			Grade of C			
MAT 267: Calculus for Engineers III	3			Grade of C			
CLAS Science and Society	3			Grade of C			
Literacy and Critical Inquiry (L)	3						
Social & Behavioral Science (SB) and Cultural Diversity in the US	2						
(C), Global Awareness (G) or Historical Awareness (H):	3						
TERM FIVE: 61-75 CREDIT HOURS	3	\boxtimes		Grade of C			
GLG 424: Petrology PHY 131: University Physics II: Electricity and Magnetism	3			Grade of C			
PHY 132: University Physics Laboratory II	1			Grade of C	-		
SES 394: Special Topics: Concepts of Electrical & Mechanical	1			Grade of C	-		
Engineering Design	3			Grade of C			
Upper Division CLAS Science and Society	3	\boxtimes		Grade of C			
TERM SIX: 76-90 CREDIT HOURS				_			
MAT 275: Modern Differential Equations	3						
SES 311: Essentials of Astrobiology: Exploration for Life in the	3	\boxtimes		Contact C			
Universe	3			Grade of C			
Branch course	3				=		
ESE Elective	3				=		
Upper division Literacy and Critical Inquiry (L) TERM SEVEN: 91-105 CREDIT HOURS	3						
SES 410: Senior Exploration Project I	3	\boxtimes		Grade of C			
Computer/Statistics/Quantitative applications (CS)	3			Grade of C			
General Elective	3				=		
General Elective	2				=		
Humanities, Fine Arts & Design (HU) and Cultural Diversity in the	2				=		
US (C), Global Awareness (G) or Historical Awareness (H):	3						
TERM EIGHT: 106-120 CREDIT HOURS							
SES 411: Senior Exploration Project II	3	\boxtimes		Grade of C			
Upper division General Elective	3						
Upper division General Elective	3				7		
Upper division General Elective	3	⊠			7		
Upper division Humanities, Fine Arts & Design (HU) or					7		
Social Behavioral Science (SB)	3			Í			



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Major Map: Earth and Space Exploration -**Bachelor of Science (B.S.)**

College of Liberal Arts and Sciences, Tempe Campus Catalog Year: 2008-2009

Graduation Requirements Summary:

Total Hours (120 minimum)	Total Hrs at ASU (30 minimum)	Hrs Resident Credit for Academic Recognition (56 minimum)	Major GPA (2.000 Min.)	Total UD Hrs (45 minimum)	Total Comm. College Hrs. (64 maximum)

General University Requirements: Legend

- General Studies Core Requirements:
 - Literacy and Critical Inquiry (L) 0
 - Mathematical Studies (MA) 0
 - 0 Computer/Statistics/Quantitative applications (CS)
 - Humanities, Fine Arts, and Design (HU) 0
 - 0 Social and Behavioral Sciences (SB)
 - Natural Science-Quantitative (SQ) 0
 - Natural Science-General (SG)
- General Studies Awareness Requirements
 - Cultural Diversity in the US (C) 0
 - Global Awareness (G)
 - Historical Awareness (H) 0
- First Year Composition

Additional Notes:

There is room in this roadmap to add a concurrent degree, minor, or certificate

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