

2021 - 2022 Major Map

Secondary Education (Earth and Space Sciences), BAE

School/College: Mary Lou Fulton Teachers College
EDESSBAE

ASU is no longer accepting new students to this program. Please explore Degree Search for other similar program options. Prospective students should consider the **Secondary Education, BAE**, which allows students to focus on a content area of their choice.

Term 1 0 - 17 Credit Hours Critical course signified by ⚠	Hours	Minimum Grade	Notes
⚠ GLG 101: Introduction to Geology I (Physical) (SQ) AND GLG 103: Introduction to Geology I-Laboratory (SQ)	4	C	<ul style="list-style-type: none"> ASU 101 or college-specific equivalent First-Year Seminar required of all first-year students Please note that by the end of term 4, you must have a minimum 2.50 cumulative GPA in order to progress into the professional pathways program. Select your career interest communities and play me3@ASU.
ENG 101 or ENG 102: First-Year Composition OR			
⚠ ENG 105: Advanced First-Year Composition OR	3	C	
ENG 107 or ENG 108: First-Year Composition			
MAT 210: Brief Calculus (MA) OR MAT 270: Calculus with Analytic Geometry I (MA)	3-4	C	
TEL 101: Professional Educator Series: The Student Experience	1		
TEL 111: Exploration of Education (SB)	3	C	
TEL 208: Literacy in a Changing World (HU)	3	C	
Term hours subtotal:	17-18		
Term 2 17 - 31 Credit Hours Critical course signified by ⚠	Hours	Minimum Grade	Notes
⚠ CHM 113: General Chemistry I (SQ)	4	C	<ul style="list-style-type: none"> Apply for identity verified print (IVP) fingerprint clearance card online. Your IVP fingerprint card will be needed for professional classroom experiences. Join a student club or professional organization
ENG 101 or ENG 102: First-Year Composition OR			
⚠ ENG 105: Advanced First-Year Composition OR	3	C	
ENG 107 or ENG 108: First-Year Composition			
TEL 171: Professional Educator Series: Equity in Education	1		
TEL 212: Understanding the Culturally Diverse Learner (C)	3	C	
TEL 215: Introduction to Child and Adolescent Development (SB)	3	C	
Complete ENG 101 OR ENG 105 OR ENG 107 course(s).			
Milestone: Submit Identity Verified Print (IVP) DPS fingerprint clearance card.			
Term hours subtotal:	14		
Term 3 31 - 45 Credit Hours Critical course signified by ⚠	Hours	Minimum Grade	Notes
⚠ TEL 203: Collaborating, Planning and Implementing Instruction in Diverse Contexts	3	C	<ul style="list-style-type: none"> GCU 113 meets the US and AZ constitution requirement for teacher certification. Develop your skills.
AST 112: Introduction to Stars, Galaxies, and Cosmology (SQ) AND			
AST 114: Astronomy Laboratory II (SQ) OR GLG 102: Introduction to Geology II (Historical) (SG & H) AND GLG 104: Introduction to Geology II-Laboratory (SG) OR GLG 108: Water Planet (SQ) OR	4	C	
GLG 110: Dangerous World (SQ & G) AND GLG 111: Dangerous World Laboratory (SQ) OR SES 106: Habitable Worlds (SQ)			
EDT 180: Technology Literacy: Problem Solving using Digital Technology Applications (CS)	3	C	

TEL 270: Professional Educator Series: Connecting Research to Practice	1
Elective (GCU 113 recommended)	3
🚩 Complete Mathematics (MA) requirement.	
Term hours subtotal:	14

Term 4 45 - 61 Credit Hours Critical course signified by 🚩	Hours	Minimum Grade	Notes
🚩 SPE 222: Orientation to Education of Exceptional Children (SB & C)	3	C	<ul style="list-style-type: none"> • Must complete at least 60 credits, including all foundational coursework, prior to progressing into the professional pathways program. • Meet with your advisor to submit intent to progress early in Term 4. • Attendance is required at an orientation prior to registration for Term 5. • Develop your professional online presence.
BLE 220: Foundations of Structured English Immersion	3	C	
GLG 325: Oceanography OR GLG 327: Earth's Critical Zone OR GPH 212: Introduction to Meteorology (SQ) OR GPH 213: Climate and Weather (SG)	3	C	
TEL 271: Professional Educator Series: Inclusivity in Practice	1		
Humanities, Arts and Design (HU) AND Global Awareness (G)	3		
Elective	3		
Milestone: Complete online Intent to Progress form (meet with advisor).			
🚩 Minimum 2.50 GPA ASU Cumulative.			
Term hours subtotal:	16		

Term 5 61 - 77 Credit Hours Necessary course signified by ⭐	Hours	Minimum Grade	Notes
⭐ SED 396: Clinical Experience I	1	C	<ul style="list-style-type: none"> • During your clinical experience internship, you will work alongside a lead teacher, in a 6-12th grade classroom. • Reliable transportation is required to get to school sites in terms 5-8.
GLG 310: Structural Geology	3	C	
GLG 325: Oceanography OR GLG 327: Earth's Critical Zone OR GPH 212: Introduction to Meteorology (SQ) OR GPH 213: Climate and Weather (SG)	3	C	
SED 464: Middle-School Curr/Org	3	C	
TEL 311: Instruction and Management in the Inclusive Classroom	3	C	
Upper Division Humanities, Arts and Design (HU) AND Historical Awareness (H)	3		
Minimum 2.50 GPA ASU Cumulative.			
Term hours subtotal:	16		

Term 6 77 - 93 Credit Hours Necessary course signified by ⭐	Hours	Minimum Grade	Notes
⭐ SED 397: Clinical Experience II	1	C	<ul style="list-style-type: none"> • During your clinical experience internship, you will work alongside a lead teacher, in a 6-12th grade classroom. • Complete an in person or virtual practice interview.
BLE 407: SEI for Secondary Students (L)	3	C	
GLG 321: Mineralogy OR GLG 451: Field Geology I (L)	3	C	
SES 480: Teaching Earth and Space Sciences OR PHY 480: Methods of Teaching Physics OR PHY 494: Teaching Physical Science	3	C	
SPE 417: Inclusion Practices at the Secondary Level	3	C	
Elective	3		
⭐ Complete Cultural Diversity in the U.S. (C) AND Global Awareness (G) AND Historical Awareness (H) course(s).			
Minimum 2.50 GPA ASU Cumulative.			
Term hours subtotal:	16		

Term 7 93 - 108 Credit Hours Necessary course signified by ⭐	Hours	Minimum Grade	Notes
⭐ SED 496: Clinical Experience III	1	C	

GLG 301: Earth Science in Arizona and the Southwest	3	C
RDG 323: Literacy Processes in Content Areas	3	C
SED 322: Classroom Leadership in Secondary Schools (L)	3	C
SED 482: Science Teaching Methods for Secondary Schools	3	C
Elective	2	
Minimum 2.50 GPA ASU Cumulative.		
Term hours subtotal:		15

- During your clinical experience internship, you will work alongside a lead teacher, in a 6-12th grade classroom.
- Students seeking teacher certification must pass required **educator exams**.
- Use Handshake to research **employment opportunities**.

Term 8 108 - 120 Credit Hours Necessary course signified by ★	Hours	Minimum Grade	Notes
★ SED 478: Student Teaching: Secondary Education (Grades 6-12)	12	C	
Minimum 2.50 GPA ASU Cumulative.			
Term hours subtotal:		12	

- Your student teaching residency requires a full-time commitment in a 6-12th grade classroom for the semester.

Hide Course List(s)/Track Group(s)

Notes:

- First-Year Composition: All students are placed in ENG 101 unless submission of SAT, ACT, Accuplacer, IELTS, or TOEFL score, or college-level transfer credit or test credit equivalent to ASU's first-year composition course(s), determine otherwise. Students on Polytechnic, Downtown Phoenix and West Campuses are encouraged to complete the Directed Self-Placement survey to choose the first-year composition option they believe best suits their needs. Visit: <https://cisa.asu.edu/DSP>
- Mathematics Placement Assessment score determines placement in first mathematics course.

Total Hours: 120

Upper Division Hours: 45 minimum

Major GPA: 2.00 minimum

Cumulative GPA: 2.00 minimum

Total hrs at ASU: 30 minimum

Hrs Resident Credit for

Academic Recognition: 56 minimum

Total Community College Hrs: 64 maximum

General University Requirements Legend

General Studies Core Requirements:

- Literacy and Critical Inquiry (L)
- Mathematical Studies (MA)
- Computer/Statistics/Quantitative Applications (CS)
- Humanities, Arts and Design (HU)
- Social-Behavioral Sciences (SB)
- Natural Science - Quantitative (SQ)
- Natural Science - General (SG)

General Studies Awareness Requirements:

- Cultural Diversity in the U.S. (C)
- Global Awareness (G)
- Historical Awareness (H)

First-Year Composition

General Studies designations listed next to courses on the major map were valid for the 2021 - 2022 academic year. Please refer to the course catalog for current General Studies designations at time of class registration. General Studies credit is applied according to the designation the course carries at the time the class is taken.

