

2021 - 2022 Major Map

Secondary Education (Physics), BAE






School/College: Mary Lou Fulton Teachers College
EDPHYBAE



ASU is no longer accepting new students to this program. Please explore Degree Search for other similar program options.




Term 1 0 - 14 Credit Hours Critical course signified by !	Hours	Minimum Grade	Notes
ENG 101: First-Year Composition or ENG 102: First-Year Composition OR ENG 105: Advanced First-Year Composition OR ENG 107: First-Year Composition or ENG 108: First-Year Composition	3	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.
MAT 270: Calculus with Analytic Geometry I (MA)	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:	14		
Term 2 14 - 32 Credit Hours Critical course signified by !	Hours	Minimum Grade	Notes
ENG 101: First-Year Composition or ENG 102: First-Year Composition OR ENG 105: Advanced First-Year Composition OR ENG 107: First-Year Composition or ENG 108: First-Year Composition	3	C	<ul style="list-style-type: none"> Apply for your 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
PHY 121: University Physics I: Mechanics (SQ) AND PHY 122: University Physics Laboratory I (SQ) OR PHY 150: Physics I (SQ)	4	C	
MAT 271: Calculus with Analytic Geometry II (MA)	4	C	
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:	18		
Term 3 32 - 47 Credit Hours Critical course signified by !	Hours	Minimum Grade	Notes
PHY 131: University Physics II: Electricity and Magnetism (SQ) AND PHY 132: University Physics Laboratory II (SQ) OR PHY 151: Physics II (SQ)	4	C	<ul style="list-style-type: none"> Develop your skills.
TEL 203: Collaborating, Planning and Implementing Instruction in Diverse Contexts	3	C	
EDT 180: Technology Literacy: Problem Solving using Digital Technology Applications (CS)	3	C	
MAT 272: Calculus with Analytic Geometry III (MA)	4	C	

Complete Mathematics (MA) requirement.

Term hours subtotal: 15

Term 4 47 - 60 Credit Hours Critical course signified by 	Hours	Minimum Grade	Notes
 PHY 201: Mathematical Methods in Physics I (CS)	3	C	<ul style="list-style-type: none"> • Must complete at least 60 credits, including foundational coursework, to progress 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.
 SPE 222: Orientation to Education of Exceptional Children (SB & C)	3	C	
BLE 220: Foundations of Structured English Immersion (L)	3	C	
TEL 271: Professional Educator Series: Inclusivity in Practice	1		
Humanities, Arts and Design (HU) AND Global Awareness (G)	3		
 Milestone: Complete online Intent to Progress form (meet with advisor).			
 Minimum 2.50 GPA ASU Cumulative.			
Term hours subtotal:		13	

Term 5 60 - 76 Credit Hours Necessary course signified by 	Hours	Minimum Grade	Notes
 SED 396: Clinical Experience I	1	C	<ul style="list-style-type: none"> • GCU 113 meets the US and AZ constitution requirement for teacher certification. • 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.
PHY 302: Mathematical Methods in Physics II	3	C	
PHY 361: Introductory Modern Physics	3	C	
SED 464: Middle-School Curr/Org	3	C	
TEL 311: Instruction and Management in the Inclusive Classroom	3	C	
Elective (GCU 113 recommended)	3		
Minimum 2.50 GPA ASU Cumulative.			
Term hours subtotal:		16	

Term 6 76 - 92 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	
PHY 333: Electronic Circuits and Measurements	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	
Upper Division Humanities, Arts and Design (HU) AND Historical Awareness (H)	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 92 - 108 Credit Hours Necessary course signified by 	Hours	Minimum Grade	Notes
 SED 496: Clinical Experience III	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. • Students seeking teacher certification must pass required educator exams. Please speak with your advisor to plan appropriately.
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	
PHY Upper Division Elective	6	C	
Minimum 2.50 GPA ASU Cumulative.			
Term hours subtotal:		16	

- 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) Minimum 2.50 GPA ASU Cumulative.	12	C	• Your student teaching residency requires a full-time commitment in a 6-12th grade classroom for the semester.
Term hours subtotal:	12		

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.