



2018 - 2019 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 - 16 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"> An SAT, ACT, Accuplacer, IELTS, or TOEFL score determines placement into first-year Composition courses Mathematics Placement Assessment score determines placement into mathematics courses ASU 101 or college-specific equivalent First-Year Seminar required of all freshman 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 iTeachAZ Program. Select your career interest area and play me3@ASU. |
| ! MAT 270: Calculus with Analytic Geometry I (MA) | 4 | C | |
| ! TEL 101: Professional Educator Series: My Footprint | 1 | | |
| SPE 222: Orientation to Education of Exceptional Children (SB & C) | 3 | C | |
| Humanities, Arts and Design (HU) AND Global Awareness (G) | 3 | | |
| Elective or Science Education Course (see below) | 2 | | |
| Term hours subtotal: | 16 | | |
| Term 2 16 - 31 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"> Join a student club or professional organization |
| ! MAT 271: Calculus with Analytic Geometry II (MA) | 4 | C | |
| ! PHY 121: University Physics I: Mechanics (SQ) AND PHY 122: University Physics Laboratory I (SQ) OR PHY 150: Physics I (SQ) | 4 | C | |
| ! TEL 102: Professional Educator Series: My Network Footprint | 1 | C | |
| Humanities, Arts and Design (HU) | 3 | | |
| Complete ENG 101 OR ENG 105 OR ENG 107 course(s). | | | |
| Term hours subtotal: | 15 | | |
| Term 3 31 - 46 Credit Hours Critical course signified by ! | Hours | Minimum Grade | Notes |
| ! MAT 272: Calculus with Analytic Geometry III (MA) | 4 | C | <ul style="list-style-type: none"> Develop your skills |




| | | | |
|--|--|----|---|
|  | 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 |
|  | TEL 201: Professional Educator Series: My Community Footprint | 1 | C |
| | GCU 113: United States and Arizona Social Studies (SB & H) | 3 | C |
| | Elective or Science Education Course (see below) | 3 | |
| | Complete Mathematics (MA) requirement. | | |
| | Milestone: DPS Fingerprint Clearance Card. | | |
| Term hours subtotal: | | 15 | |


| Term 4 46 - 60 Credit Hours Critical course signified by  | Hours | Minimum Grade | Notes |
|---|-------|---------------|-------|
|---|-------|---------------|-------|

| | | | |
|--|---|----|---|
|  | PHY 201: Mathematical Methods in Physics I (CS) | 3 | C |
|  | PHY 252: Physics III (SQ) | 4 | C |
|  | TEL 202: Professional Educator Series: My Impact | 1 | C |
| | EDP 313: Childhood and Adolescence (SB) | 3 | C |
| | TEL 212: Understanding the Culturally Diverse Learner (C) | 3 | C |
|  | Milestone: Intent to Progress Online Form. | | |
|  | Minimum 2.50 GPA ASU Cumulative. | | |
| Term hours subtotal: | | 14 | |

- Must complete at least 60 credits including foundational coursework to progress into iTeachAZ.
- Must have minimum 2.50 GPA to progress into iTeachAZ program.
- Develop your **professional online presence**

| Term 5 60 - 76 Credit Hours Necessary course signified by  | Hours | Minimum Grade | Notes |
|---|-------|---------------|-------|
|---|-------|---------------|-------|

| | | | |
|--|---|----|---|
|  | SED 396: Clinical Experience I | 1 | C |
|  | SED 464: Middle-School Curr/Org | 3 | C |
|  | TEL 311: Instruction and Management in the Inclusive Classroom | 3 | C |
| | PHY 302: Mathematical Methods in Physics II | 3 | C |
| | PHY 310: Classical Particles, Fields, and Matter I | 3 | C |
| | PHY 314: Quantum Physics I OR PHY 361: Introductory Modern Physics | 3 | C |
| | Minimum 2.50 GPA ASU Cumulative. | | |
| Term hours subtotal: | | 16 | |

| Term 6 76 - 92 Credit Hours Necessary course signified by  | Hours | Minimum Grade | Notes |
|---|-------|---------------|-------|
|---|-------|---------------|-------|

| | | | |
|----------------------|--|----|---|
| ★ | PHY 480: Methods of Teaching Physics | 3 | C |
| ★ | SED 397: Clinical Experience II | 1 | C |
| ★ | SPE 417: Inclusion Practices at the Secondary Level | 3 | C |
| | BLE 407: SEI for Secondary Students (L) | 3 | C |
| | PHY 333: Electronic Circuits and Measurements | 3 | C |
| | Elective or Science Education Course (see below) | 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 | |

- Complete an in person or virtual practice interview

| ★ Term 7 92 - 108 Credit Hours Necessary course signified by | Hours | Minimum Grade | Notes |
|---|-------|---------------|-------|
|---|-------|---------------|-------|

| | | | |
|----------------------|---|----|---|
| ★ | 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 |
| ★ | SED 496: Clinical Experience III | 1 | C |
| | PHY Upper Division Elective | 3 | C |
| | Elective or Science Education Course (see below) | 3 | |
| | Minimum 2.50 GPA ASU Cumulative. | | |
| Term hours subtotal: | | 16 | |

| ★ 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 | |

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

| |
|--|
| Elective or Science Education Course |
| SCN 205: Introduction to Tropical Ecology: A Cultural Exchange |
| SCN 209: Introduction to Environmental Education Project |

SCN 250: Physical Science by Inquiry (SQ)

SCN 300: Foundations of Environmental Education

SCN 301: Ecology and Natural History of the Sonoran Desert

SCN 302: Environmental Education (L)

SCN 303: Environmental Education Internship

SCN 304: Sonoran Desert Flora

SCN 305: Tropical Ecology: A Cultural Exchange

SCN 307: Learning from Nature: Biomimicry and STEM

SCN 308: Urban Environmental Education

SCN 401: Sustainability Science, Technology, and Society

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 2018 - 2019 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.