











## 2024 - 2025 Major Map

### Secondary Education (Biological Sciences), **BAE**

School/College: Mary Lou Fulton Teachers College  
TEBIOBAE

Term 1 0 - 17 Credit Hours <b>Critical course signified by</b> 	Hours	Minimum Grade	Notes
 BIO 181: General Biology I (SCIT OR SQ)	4	C	<ul style="list-style-type: none"> <li>ASU 101 or college-specific equivalent First-Year Seminar required of all first-year students.</li> <li>Join a <b>student club</b> or professional organization.</li> </ul>
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 170: Precalculus (MATH OR MA)	3	C	
TEL 101: Professional Educator Series: The Student Experience	1		
TEL 111: Exploration of Education (HUAD OR SB)	3	C	
TEL 215: Introduction to Child and Adolescent Development (SOBE OR SB)	3	C	
Term hours subtotal:	17		
Term 2 17 - 31 Credit Hours <b>Critical course signified by</b> 	Hours	Minimum Grade	Notes
 BIO 182: General Biology II (SCIT OR SG)	4	C	<ul style="list-style-type: none"> <li>Apply for an identify verified print (IVP) <b>fingerprint clearance card</b> online.</li> <li>Your IVP fingerprint card will be needed for professional classroom experiences.</li> <li>Join a <b>student club</b> or professional organization.</li> </ul>
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 (HUAD OR HU & C)	3	C	
Global Communities, Societies and Individuals (GCSI)	3		
Complete ENG 101 OR ENG 105 OR ENG 107 course(s).			
Term hours subtotal:	14		
Term 3 31 - 45 Credit Hours <b>Critical course signified by</b> 	Hours	Minimum Grade	Notes
 SPE 222: Orientation to Education of Exceptional Children (CIVI OR SB & C)	3	C	
BLE 220: Foundations of Structured English Immersion (HUAD OR L)	3	C	
CHM 113: General Chemistry I (SCIT OR SQ)	4	C	
GCU 113: United States and Arizona Social Studies (AMIT OR SB & H)	3		
TEL 270: Professional Educator Series: Connecting Research to Practice	1		
 Complete Mathematics (MATH) requirement.			
Term hours subtotal:	14		
Term 4 45 - 59 Credit Hours <b>Critical course signified by</b> 	Hours	Minimum Grade	Notes

TEL 203: Collaborating, Planning and Implementing Instruction in Diverse Contexts	3	C
CHM 116: General Chemistry II (SCIT OR SQ)	4	C
EDT 180: Technology Literacy: Problem Solving using Digital Technology Applications (QTRS OR CS)	3	C
TEL 271: Professional Educator Series: Inclusivity in Practice	1	
Sustainability (SUST) (SCN 202 or SCN 208 recommended)	3	
Term hours subtotal:	14	

Term 5 59 - 74 Credit Hours Necessary course signified by ★	Hours	Minimum Grade	Notes
★ TEL 310: Instructional Design and Planning: Instructional Thought and Action	4	C	<ul style="list-style-type: none"> <li>Students may take TEL 318 in an earlier term if their schedule allows. Please consult with an academic advisor first.</li> </ul>
BIO 201: Human Anatomy and Physiology I (SCIT OR SG) OR BIO 360: Animal Physiology OR PLB 308: Plant Physiology	3-4	C	
BIO 340: General Genetics OR LSC 347: Fundamentals of Genetics AND LSC 348: Fundamentals of Genetics Laboratory	4	C	
TEL 318: Instructional Thought and Action: Assessment for Learning	3	C	
TEL 370: Professional Educator Series: Building a Professional Network	1		
Term hours subtotal:	15-16		

Term 6 74 - 91 Credit Hours Necessary course signified by ★	Hours	Minimum Grade	Notes
★ TEL 366: Internship: Intermediate	1	C	<ul style="list-style-type: none"> <li>Students may choose content courses, elective courses, or a specialization area which can be a certificate or personalized interest area. Students select appropriate courses in consultation with their academic advisor.</li> <li>Complete an in person or virtual <b>practice interview</b>.</li> </ul>
BIO 320: Fundamentals of Ecology OR BIO 345: Evolution	3	C	
SED 482: Science Teaching Methods for Secondary Schools I	3	C	
TEL 317: Instructional Thought and Action: Learning Environment and Management	3	C	
TEL 371: Professional Educator Series: Educational Policies	1		
Complete 2 courses: Content, Elective, or Specialization Area Course	6		
Term hours subtotal:	17		

Term 7 91 - 108 Credit Hours Necessary course signified by ★	Hours	Minimum Grade	Notes
★ TEL 332: Disciplinary Literacy Methods	4	C	<ul style="list-style-type: none"> <li>Students may choose content courses, elective courses, or a specialization area which can be a certificate or personalized interest area. Students select appropriate courses in consultation with their academic advisor.</li> </ul>
SED 483: Science Teaching Methods for Secondary Schools II	3	C	
TEL 340: Families, Communities and Cultures: Cultivating Networks of Culturally Responsive Relationships (SOBE OR SB)	3	C	
TEL 470: Professional Educator Series: Career Growth and Planning	1		
Complete 2 courses: Content, Elective, or Specialization Area Course	6		
Term hours subtotal:	17		

Term 8 108 - 120 Credit Hours Necessary course signified by ★	Hours	Minimum Grade	Notes
★ TEL 488: Student Teaching	11	C	
TEL 471: Professional Educator Series: The Principled Educator	1		
Term hours subtotal:	12		

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

- **Total Hours:** 120
- **Upper Division Hours:** 45 minimum
- **University Undergraduate Graduation Requirements**

**Notes:**

Mathematics Placement Assessment score determines placement in first mathematics course.

General Studies designations listed next to courses on the major map were valid for the 2024 - 2025 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.