
















## 2024 - 2025 Major Map



### Secondary Education (Mathematics), BAE

School/College: Mary Lou Fulton Teachers College  
 TEMATBAE



Term 1 0 - 18 Credit Hours Critical course signified by 	Hours	Minimum Grade	Notes
 ENG 101 or ENG 102: First-Year Composition OR  ENG 105: Advanced First-Year Composition OR ENG 107 or ENG 108: First-Year Composition	3	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>
 MAT 270: Calculus with Analytic Geometry I (MATH OR MA)	4	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	
Scientific Thinking in Natural Sciences (SCIT)	4		
Term hours subtotal:	18		
Term 2 18 - 35 Credit Hours Critical course signified by 	Hours	Minimum Grade	Notes
 ENG 101 or ENG 102: First-Year Composition OR  ENG 105: Advanced First-Year Composition OR ENG 107 or ENG 108: First-Year Composition	3	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> </ul>
 MAT 271: Calculus with Analytic Geometry II (MATH OR MA)	4	C	
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		
Sustainability (SUST) (SCN 202 or SCN 208 recommended)	3		
Complete ENG 101 OR ENG 105 OR ENG 107 course(s).			
Term hours subtotal:	17		
Term 3 35 - 53 Credit Hours Critical course signified by 	Hours	Minimum Grade	Notes
 SPE 222: Orientation to Education of Exceptional Children (CIVI OR SB & C)	3	C	
 MAT 272: Calculus with Analytic Geometry III (MATH OR MA)	4	C	
BLE 220: Foundations of Structured English Immersion (HUAD OR L)	3	C	
MAT 207: Algebra and Geometry in the High School AND MTE 210: Mentored Tutoring Internship OR MAT 208: Discrete Mathematics for Secondary Teachers OR MAT 243: Discrete Mathematical Structures	3	C	
TEL 270: Professional Educator Series: Connecting Research to Practice	1		
Scientific Thinking in Natural Sciences (SCIT)	4		
Complete Mathematics (MATH) requirement.			
Term hours subtotal:	18		

Term 4 53 - 66 Credit Hours <b>Critical course signified by</b> 	Hours	Minimum Grade	Notes
 TEL 203: Collaborating, Planning and Implementing Instruction in Diverse Contexts	3	C	
EDT 180: Technology Literacy: Problem Solving using Digital Technology Applications (QTRS OR CS)	3	C	
GCU 113: United States and Arizona Social Studies (AMIT OR SB & H)	3		
MAT 300: Mathematical Structures (L)	3	C	
TEL 271: Professional Educator Series: Inclusivity in Practice	1		
Term hours subtotal:	13		

Term 5 66 - 80 Credit Hours <b>Necessary course signified by</b> 	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>
MAT 310: Introduction to Geometry	3	C	
STP 420: Introductory Applied Statistics (QTRS OR CS)	3	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:	14		

Term 6 80 - 94 Credit Hours <b>Necessary course signified by</b> 	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>
MAT 342: Linear Algebra OR MAT 343: Applied Linear Algebra OR MAT 275: Modern Differential Equations (MATH OR MA) OR MAT 371: Advanced Calculus I	3	C	
MTE 485: Methods of Teaching Standards-Based Middle Grades and Early Secondary Mathematics OR MTE 494: Advanced Methods of Teaching Mathematics in Secondary Schools	3	C	
TEL 317: Instructional Thought and Action: Learning Environment and Management	3	C	
TEL 371: Professional Educator Series: Educational Policies	1		
Content, Elective, or Specialization Area Course	3		
Term hours subtotal:	14		

Term 7 94 - 108 Credit Hours <b>Necessary course signified by</b> 	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>
MTE 485: Methods of Teaching Standards-Based Middle Grades and Early Secondary Mathematics OR MTE 494: Advanced Methods of Teaching Mathematics in Secondary Schools	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		
Content, Elective, or Specialization Area Course	3		
Term hours subtotal:	14		

Term 8 108 - 120 Credit Hours <b>Necessary course signified by</b> 	Hours	Minimum Grade	Notes
 TEL 488: Student Teaching	11	C	

#### 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.