












2024 - 2025 Major Map

Environmental and Resource Management, BS

School/College: [Ira A. Fulton Schools of Engineering](#)
TSETMBS

Term 1 0 - 15 Credit Hours Critical course signified by 	Hours	Minimum Grade	Notes
 ASU 101-TPS: The ASU Experience	1		<ul style="list-style-type: none"> ASU 101 is required of all first-year students. Prep for success using the First-Year Student Guide. Join a Fulton community. Explore engineering and technical professions.
CHM 113: General Chemistry I (SCIT OR SQ)	4	C	
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 (MATH OR MA)	3	C	
Humanities, Arts and Design (HUAD)	3		
Elective	1		
Term hours subtotal:	15		
Term 2 15 - 30 Credit Hours Critical course signified by 	Hours	Minimum Grade	Notes
BIO 181: General Biology I (SCIT OR SQ)	4	C	<ul style="list-style-type: none"> Students wishing to take HSE 230 in Term 3 should complete HSE 101 in Term 2. Create a Handshake profile. Get involved with EPICS, the Generator Labs, and the Fulton Start-Up Center.
CHM 116: General Chemistry II (SCIT OR SQ)	4	C	
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			
Social and Behavioral Sciences (SOBE) (HSE 101 recommended)	3		
Elective	1		
 Complete ENG 101 OR ENG 105 OR ENG 107 course(s).			
Term hours subtotal:	15		
Term 3 30 - 45 Credit Hours Critical course signified by 	Hours	Minimum Grade	Notes
 ERM 201: Environmental Management	3	C	<ul style="list-style-type: none"> Prep for success using the Sophomore Guide.
 CHM 231: Elementary Organic Chemistry (SCIT OR SQ)	3	C	
STP 226: Elements of Statistics (QTRS OR CS) OR HSE 230: Statistics for Human Systems Research I (QTRS OR CS)	3		
American Institutions (AMIT)	3		
Governance and Civic Engagement (CIVI)	3		
 Complete CHM 113 course(s).			
 Complete MAT 210 course(s).			
Complete Mathematics (MATH) requirement.			
Term hours subtotal:	15		
Term 4 45 - 60 Credit Hours Critical course signified by 	Hours	Minimum Grade	Notes
 ERM 203: Environmental Regulations	3	C	<ul style="list-style-type: none"> Pursue an undergraduate research experience.
PHY 111: General Physics (SCIT OR SQ)	3	C	

Technical Elective	3
Humanities, Arts and Design (HUAD)	3
Sustainability (SUST)	3
Term hours subtotal:	15

- Apply for **internships**.
- Attend **career fairs and events**.
- Students interested in taking EVE courses should check pre-requisites. These courses are only offered on the Tempe campus.

Term 5 60 - 75 Credit Hours Necessary course signified by ★	Hours	Minimum Grade	Notes
★ ERM 407: Occupational Hygiene	3		<ul style="list-style-type: none"> • Plan for success using the Junior Guide. • Network at student organization competitions or professional societies.
ERM 432: Sustainable Solid Waste Management	3		
Technical Elective (PHY 112 recommended)	3		
ERM Upper Division Elective	3		
Upper Division Elective	3		
★ Complete CHM 231 course(s).			
Term hours subtotal:	15		

Term 6 75 - 90 Credit Hours Necessary course signified by ★	Hours	Minimum Grade	Notes
★ ERM 302: Water and Wastewater Treatment Technology	3	C	<ul style="list-style-type: none"> • Research and prepare for graduate school. • Apply for a Fulton Schools 4+1 program. • Develop a professional profile online.
ERM 401: Hazardous Waste Management	3		
Global Communities, Societies and Individuals (GCSI)	3		
Complete 2 courses:	6		
Upper Division Elective			
Term hours subtotal:	15		

Term 7 90 - 105 Credit Hours Necessary course signified by ★	Hours	Minimum Grade	Notes
★ ERM 402: Unit Treatment Technologies	3		<ul style="list-style-type: none"> • Plan for success using the Senior Guide. • Use Handshake to apply for full-time positions. • Complete an in person or virtual practice interview.
★ ERM 480: Senior Project	3		
ERM 484: Internship OR Elective	3		
ERM Upper Division Elective	3		
Upper Division Technical Elective	3		
Term hours subtotal:	15		

Term 8 105 - 120 Credit Hours Necessary course signified by ★	Hours	Minimum Grade	Notes
★ ERM 406: Environmental Chemistry	3		
ERM 428: International Environmental Management (G)	3	C	
Upper Division Technical Elective	3		
Complete 2 courses:	6		
Technical Elective			
Term hours subtotal:	15		

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

Technical Elective(s)
ABS OR AGB OR BIO OR CEE OR CHM OR CIS OR CSE OR EDT OR EGR OR EVE OR FSE OR GIT OR GLG OR GPH OR HSE OR IFT OR MAT OR MFG OR OMT OR PHY OR PUP OR SOS OR TEM OR TMC Elective

- **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.