





















2024 - 2025 Major Map

Technological Entrepreneurship and Management, BS

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

Term 1 - A 0 - 8 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.
 TMC 110: Understanding the Enterprise	3	C	
TEM 100: Seminar in Entrepreneurship	1	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			
Term hours subtotal:	8		
Term 1 - B 8 - 14 Credit Hours	Hours	Minimum Grade	Notes
FSE 181: Technological, Social, and Sustainable Systems (SUST OR HU)	3	C	<ul style="list-style-type: none"> View ASU Online first-year student registration information here.
HSE 101: Introduction to Human Systems Engineering (SOBE OR SB) OR PSY 101: Introduction to Psychology (SOBE OR SB)	3	C	
Term hours subtotal:	6		
Term 2 - A 14 - 21 Credit Hours	Hours	Minimum Grade	Notes
MAT 210: Brief Calculus (MATH OR MA)	3	C	<ul style="list-style-type: none"> Create a Handshake profile. Get involved with EPICS, the Generator Labs, and the Fulton Start-Up Center.
Scientific Thinking in Natural Sciences (SCIT)	4		
Term hours subtotal:	7		
Term 2 - B 21 - 30 Credit Hours Critical course signified by 	Hours	Minimum Grade	Notes
 TEM 200: My Technology Venture OR TEM 201: Applied Social Entrepreneurship I	3	C	
CIS 105: Computer Applications and Information Technology (QTRS OR CS) OR CSE 100: Principles of Programming with C++ (QTRS OR CS) OR CSE 110: Principles of Programming (QTRS OR CS) OR CSE 180: Computer Literacy (QTRS OR CS) OR GIT 215: Introduction to Web Authoring	3		
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			
 Complete ENG 101 OR ENG 105 OR ENG 107 course(s).			
Term hours subtotal:	9		
Term 3 - A 30 - 40 Credit Hours Critical course signified by 	Hours	Minimum Grade	Notes
 HSE 230: Statistics for Human Systems Research I (QTRS OR CS) OR STP 226: Elements of Statistics (QTRS OR CS)	3		<ul style="list-style-type: none"> Prep for success using the Sophomore Guide.
 TEM 230: Creativity and Business Innovation	3	C	

Upper Division Elective	4		
Term hours subtotal:	10		
Term 3 - B 40 - 46 Credit Hours Critical course signified by 	Hours	Minimum Grade	Notes
Innovation Elective	2		
Scientific Thinking in Natural Sciences (SCIT)	4		
 Complete Mathematics (MATH) requirement.			
 Complete TEM 100 course(s).			
Term hours subtotal:	6		
Term 4 - A 46 - 55 Credit Hours Critical course signified by 	Hours	Minimum Grade	Notes
 TEM 250: Design Methodology	3	C	<ul style="list-style-type: none"> Pursue an undergraduate research experience. Apply for internships. Attend career fairs and events.
Innovation Elective	3		
Technical Elective	3		
Term hours subtotal:	9		
Term 4 - B 55 - 61 Credit Hours	Hours	Minimum Grade	Notes
American Institutions (AMIT)	3		
Technical Elective	3		
Term hours subtotal:	6		
Term 5 - A 61 - 70 Credit Hours	Hours	Minimum Grade	Notes
Upper Division Technical Elective	3		<ul style="list-style-type: none"> Plan for success using the Junior Guide. Network at student organization competitions or professional societies.
Innovation Elective	3		
Humanities, Arts and Design (HUAD)	3		
Term hours subtotal:	9		
Term 5 - B 70 - 77 Credit Hours Necessary course signified by 	Hours	Minimum Grade	Notes
 TMC 330: Leading the Enterprise OR OMT 480: Organizational Effectiveness	3	C	
TEM 300: Career Management for Entrepreneurs and Innovators I	1	C	
TEM 484: Internship OR Elective	3		
Term hours subtotal:	7		
Term 6 - A 77 - 86 Credit Hours Necessary course signified by 	Hours	Minimum Grade	Notes
 FSE 301: Entrepreneurship and Value Creation OR TEM 301: Applied Social Entrepreneurship II	3	C	<ul style="list-style-type: none"> Research and prepare for graduate school. Develop a professional profile online.
 TMC 310: Promotion of the Enterprise	3	C	
TEM 431: Innovation Management	3	C	
Term hours subtotal:	9		
Term 6 - B 86 - 93 Credit Hours	Hours	Minimum Grade	Notes
TEM 401: Career Management for Entrepreneurs and Innovators II	1		
TMC 320: Funding the Enterprise	3	C	
Governance and Civic Engagement (CIVI)	3		
Term hours subtotal:	7		
Term 7 - A 93 - 102 Credit Hours Necessary course signified by 	Hours	Minimum Grade	Notes

★ TEM 400: Technology Entrepreneurship OR OMT 452: Intrapreneurship in Industrial Human Resource Management	3	C
TMC 430: Enterprise Strategy and Innovation	3	
Humanities, Arts and Design (HUAD)	3	
Term hours subtotal:	9	

- Students who prefer to focus on startups should take TEM 400, and students who prefer to focus on intrapreneurship within companies should take OMT 452.
- Plan for success using the **Senior Guide**.
- Use **Handshake** to apply for full-time positions.

Term 7 - B 102 - 108 Credit Hours	Hours	Minimum Grade	Notes
TEM 455: Global Impact Entrepreneurship OR OMT 440: International Business (G)	3	C	• If you are participating or planning on participating in the Thunderbird 4+1 degree, OMT 440 is required.
Upper Division Technical Elective	3		
Term hours subtotal:	6		

★ Term 8 - A 108 - 114 Credit Hours Necessary course signified by	Hours	Minimum Grade	Notes
★ TMC 498: Pro-Seminar (L) OR TEM 481: Consulting Project OR TEM 482: Startup Workshop	3	C	• Complete an in person or virtual practice interview.
Global Communities, Societies and Individuals (GCSI)	3		
Term hours subtotal:	6		

★ Term 8 - B 114 - 120 Credit Hours Necessary course signified by	Hours	Minimum Grade	Notes
★ TMC 470: Enterprise Planning and Implementation OR TMC 410: Enterprise Operations	3	C	
Upper Division Innovation Elective	3		
Term hours subtotal:	6		

- Select 12 credit hours of Technical Electives from the provided list of subjects, including six upper-division credits.

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

Innovation Electives	Technical Electives
CEE OR FSE OR OMT OR TEM OR TMC Elective	AME OR AMT OR AST OR BIO OR BMI OR CAP OR CDH OR CEE OR CHM OR CIS OR CSE OR EEE OR EGR OR ENT OR FIS OR GIT OR GLG OR HSE OR HUL OR IEE OR IFT OR IGD OR IVD OR MAE OR MAT OR MFG OR MGT OR OGL OR OMT OR PHY OR PMG OR PSY OR PUP OR RAS OR SER OR SES OR SOS OR STP OR TEM OR TGM OR TMC OR TWC 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.