2024 - 2025 Major Map

Human Systems Engineering (User Experience), BS

School/College: Ira A. Fulton Schools of Engineering

ESHSEUEBS

Term 1 - A 0 - 7 Credit Hours Critical course signified by ⚠	Hours	Minimum Grade	Notes
⚠ ASU 101-TPS: The ASU Experience	1		• ASU 101 is required of all first-year students.
⚠ HSE 101: Introduction to Human Systems Engineering (SOBE OR SB)	3	C	• Prep for success using the First-Year Student Guide.
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	• Join a Fulton community. • Explore engineering and technical professions.
Term hours subtotal:	7		

Term 1 - B 7 - 14 Credit Hours	Hours	Minimum Grade	Notes
MAT 170: Precalculus (MATH OR MA)	3	C	• View ASU Online first-year student registration information here.
Scientific Thinking in Natural Sciences (SCIT)	4		
Term hours subtotal:	7		

Term 2 - A 14 - 23 Credit Hours Critical course signified by ⚠	Hours	Minimum Grade	Notes
⚠ HSE 230: Statistics for Human Systems Research I (QTRS OR CS)	3	C	• Create a Handshake profile.
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	• Get involved with EPICS, the Generator Labs, and the Fulton Start-Up Center.
FSE 100: Introduction to Engineering	2		
Elective	1		
Term hours subtotal:	9		

Term 2 - B 23 - 30 Credit Hours Critical course signified by ⚠	Hours	Minimum Grade	Notes
Humanities, Arts and Design (HUAD)	3		
Scientific Thinking in Natural Sciences (SCIT)	4		
⚠ Complete ENG 101 OR ENG 105 OR ENG 107 course(s).			
Term hours subtotal:	7		

Term 3 - A 30 - 36 Credit Hours Critical course signified by ⚠	Hours	Minimum Grade	Notes
⚠ HSE 290: Experimental Methods for Human Systems Research (QTRS OR L)	3	C	• Prep for success using the Sophomore Guide.
HSE 223: Applied Biology of Human Behavior (SOBE OR SB)	3	C	
Term hours subtotal:	6		

Term 3 - B 36 - 45 Credit Hours Critical course signified by ⚠	Hours	Minimum Grade	Notes
HSE 224: Applied Social Science (SOBE OR SB)	3	C	

	Hours	Minimum Grade	Notes
User Experience Concentration Course	3	C	
Humanities, Arts and Design (HUAD)	3		
❗ Complete Mathematics (MATH) requirement.			
Term hours subtotal:	9		

Term 4 - A 45 - 51 Credit Hours Critical course signified by ❗	Hours	Minimum Grade	Notes
❗ HSE 225: Human Systems Integration	3	C	• Pursue an undergraduate research experience. • Apply for internships. • Attend career fairs and events.
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 EDT 180: Technology Literacy: Problem Solving using Digital Technology Applications (QTRS OR CS)	3		
Term hours subtotal:	6		

Term 4 - B 51 - 60 Credit Hours	Hours	Minimum Grade	Notes
User Experience Concentration Course	3	C	
American Institutions (AMIT)	3		
Governance and Civic Engagement (CIVI)	3		
Term hours subtotal:	9		

Term 5 - A 60 - 69 Credit Hours Necessary course signified by ⭐	Hours	Minimum Grade	Notes
⭐ HSE 324: Applied Cognitive Science (SOBE OR SB)	3	C	• Plan for success using the Junior Guide. • Network at student organization competitions or professional societies.
Upper Division Human Systems Engineering Elective	3		
User Experience Concentration Course	3	C	
Term hours subtotal:	9		

Term 5 - B 69 - 75 Credit Hours	Hours	Minimum Grade	Notes
HSE 390: Qualitative Research Methods (L)	3	C	
Sustainability (SUST)	3		
Term hours subtotal:	6		

Term 6 - A 75 - 84 Credit Hours Necessary course signified by ⭐	Hours	Minimum Grade	Notes
⭐ HSE 323: Perceptual Systems (SOBE OR SB)	3	C	• Research and prepare for graduate school. • Apply for an engineering 4+1 program. • Develop a professional profile online.
HSE 484: Internship OR Upper Division Human Systems Engineering Elective	3		
User Experience Concentration Course	3	C	
Term hours subtotal:	9		

Term 6 - B 84 - 90 Credit Hours	Hours	Minimum Grade	Notes
HSE 325: Human-Computer Interaction	3	C	
Upper Division Human Systems Engineering Elective	3		
Term hours subtotal:	6		

Term 7 - A 90 - 96 Credit Hours Necessary course signified by ⭐	Hours	Minimum Grade	Notes
⭐ HSE 430: Statistics for Human Systems Research II (QTRS OR CS)	3		• Plan for success using the Senior Guide. • Apply for full-time positions. • Complete an in person or virtual practice interview.
Upper Division User Experience Concentration Course	3	C	
Term hours subtotal:	6		

Term 7 - B 96 - 105 Credit Hours	Hours	Minimum Grade	Notes
Upper Division User Experience Concentration Course	3	C	
Global Communities, Societies and Individuals (GCSI)	3		
Elective	3		
Term hours subtotal:	9		

Term 8 - A 105 - 111 Credit Hours Necessary course signified by ⭐	Hours	Minimum Grade	Notes
⭐ HSE 477: Human Systems Engineering Capstone Experience	3	C	
Upper Division Elective	3		
Term hours subtotal:	6		

Term 8 - B 111 - 120 Credit Hours	Hours	Minimum Grade	Notes
Upper Division User Experience Concentration Course	3	C	
Complete 2 courses: Upper Division Elective	6		
Term hours subtotal:	9		

- Students must take seven courses from the User Experience Concentration list below, and three courses from the HSE Electives list below.

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

User Experience Concentration	Human Systems Engineering Elective
GIT 135: Graphic Communications	HSE 422: Human Factors in Sport
GIT 210: Creative Thinking and Design Visualization	HSE 423: Human Factors in Transportation
GIT 215: Introduction to Web Authoring	HSE 424: Human Automation Interaction
GIT 230: Digital Illustration in Publishing	HSE 425: Human Factors in Medical Systems
GIT 337: Web Content Design	HSE 426: Training and Expertise
GIT 340: Information Design and Usability	HSE 427: Designing for Learning
GIT 402: New Media Internet Technologies	HSE 428: Judgment and Decision Making
GIT 414: Web Site Design and Internet/Web Technologies	HSE 429: Product Design and Evaluation
GIT 417: Advanced Web Markup and Scripting	HSE 484: Internship
GIT 418: Multimedia Authoring, Scripting and Production	HSE 494: Special Topics
GIT 494: UI/UX Consulting	HSE 499: Individualized Instruction
TWC 411: Principles of Visual Communication (L)	
TWC 414: Visualizing Data and Information	
TWC 421: Principles of Web Authoring (L)	
TWC 444: User Experience	

- **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.

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