2024 - 2025 Major Map

Human Systems Engineering, BS

School/College: Ira A. Fulton Schools of Engineering ESHSEBS

Ferm 1 - A 0 - 7 Credit Hours Critical course signified by $oldsymbol{\Phi}$	Hours	Minimum Grade	Notes	
ASU 101-TPS: The ASU Experience 1			• ASU 101 is required of all first-year	
HSE 101: Introduction to Human Systems Engineering (SOBE OR SB)	3	С	 students. Prep for success using the Freshman Guide. Join a Fulton community. Explore engineering and technical 	
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	С		
Term hours subtotal:	7		professions.	
Cerm 1 - B 7 - 14 Credit Hours	Hours	Minimum Grade	Notes	
MAT 170: Precalculus (MATH OR MA)	3	С	• View ASU Online first-year student	
Scientific Thinking in Natural Sciences (SCIT)	4		registration information here.	
Term hours subtotal:	7		C C	
Yerm 2 - A 14 - 21 Credit Hours Critical course signified by	Hours	Minimum Grade	Notes	
HSE 230: Statistics for Human Systems Research I (QTRS OR CS)	3	С	 Create a Handshake profile. Get involved with EPICS, the Generate Labs, and the Fulton Start-Up Center. 	
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	С		
Elective	1			
Term hours subtotal:	7			
Yerm 2 - B 21 - 30 Credit Hours Critical course signified by 争	Hours	Minimum Grade	Notes	
FSE 100: Introduction to Engineering	2			
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:				
erm 3 - A 30 - 39 Credit Hours Critical course signified by 🗘	Hours	Minimum Grade	Notes	
HSE 290: Experimental Methods for Human Systems Research (QTRS OR L)	3	С	 Prep for success using the Sophomore Guide. Consult the Resume, Presentation, and 	
HSE 223: Applied Biology of Human Behavior (SOBE OR SB)	3	С		
Humanities, Arts and Design (HUAD)	3		Resource Library for tips on how to crea	
Term hours subtotal:	9		a technical resume, job shadow, do informational interviews and mentor wit	

alumni.

Term 3 - B 39 - 45 Credit Hours Critical course signified by 🔶	Hours	Minimum Grade	Notes	
HSE 224: Applied Social Science (SOBE OR SB)	3	С		
Technical Elective	3			
Omplete Mathematics (MATH) requirement.				
Term hours subtotal:	6			
Term 4 - A 45 - 51 Credit Hours Critical course signified by ᡐ	Hours	Minimum Grade	Notes	
HSE 225: Human Systems Integration	3	С	• Pursue an undergraduate research	
Technical Elective	3		Apply for internships.Attend career fairs and events.	
Term hours subtotal:				
Ferm 4 - B 51 - 60 Credit Hours	Hours	Minimum Grade	Notes	
Technical Elective	3			
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	С	• Plan for success using the Junior Guide	
HSE Elective	3		 Network at student organization 	
Sustainability (SUST)	3		competitions or professional societies.	
Term hours subtotal:	9			
Ferm 5 - B 69 - 75 Credit Hours	Hours	Minimum Grade	Notes	
HSE 390: Qualitative Research Methods (L)	3	С		
Upper Division Elective	3			
Term hours subtotal:	6			
Ferm 6 - A 75 - 84 Credit Hours Necessary course signified by 🙀	Hours	Minimum Grade	Notes	
☆ HSE 323: Perceptual Systems (SOBE OR SB)	3	С	 Research and prepare for graduate school. Apply for an engineering 4+1 program 	
HSE 484: Internship OR Upper Division Human Systems Engineering Elective	3			
Technical Elective	3		• Develop a professional profile online.	
Term hours subtotal:	9			
	Hours	Minimum Grade	Notes	
Ferm 6 - B 84 - 90 Credit Hours			Notes	
Ferm 6 - B 84 - 90 Credit Hours HSE 325: Human-Computer Interaction Upper Division Elective	3	Grade	Notes	
Ferm 6 - B 84 - 90 Credit Hours HSE 325: Human-Computer Interaction	3	Grade	Notes	
Ferm 6 - B 84 - 90 Credit Hours HSE 325: Human-Computer Interaction Upper Division Elective Term hours subtotal:	3	Grade	Notes	
Ferm 6 - B 84 - 90 Credit Hours HSE 325: Human-Computer Interaction Upper Division Elective Term hours subtotal: Ferm 7 - A 90 - 99 Credit Hours Necessary course signified by 🛠 HSE 430: Statistics for Human Systems Research II (QTRS OR CS)	3 3 6 Hours 3	Grade C Minimum Grade	Notes • Plan for success using the Senior Guide	
Ferm 6 - B 84 - 90 Credit Hours HSE 325: Human-Computer Interaction Upper Division Elective Term hours subtotal: Ferm 7 - A 90 - 99 Credit Hours Necessary course signified by ★ HSE 430: Statistics for Human Systems Research II (QTRS OR CS) Upper Division Human Systems Engineering Elective	3 3 6 Hours 3	Grade C Minimum Grade	Notes	
Ferm 6 - B 84 - 90 Credit Hours HSE 325: Human-Computer Interaction Upper Division Elective Term hours subtotal: Ferm 7 - A 90 - 99 Credit Hours Necessary course signified by ☆ HSE 430: Statistics for Human Systems Research II (QTRS OR CS) Upper Division Human Systems Engineering Elective	3 3 6 Hours 3	Grade C Minimum Grade C	Notes Plan for success using the Senior Guid Use Handshake to apply for full-time 	

Term 7 - B 99 - 105 Credit Hours	Hours	Minimum Grade	Notes
Upper Division Human Systems Engineering Elective	3		
Upper Division Elective	3		
Term hours subtotal:	6		
Term 8 - A 105 - 114 Credit Hours Necessary course signified by	Hours	Minimum Grade	Notes
🔆 HSE 477: Human Systems Engineering Capstone Experience	3	С	
Upper Division Human Systems Engineering Elective	3		
Global Communities, Societies and Individuals (GCSI)	3		
Term hours subtotal:	9		
Term 8 - B 114 - 120 Credit Hours	Hours	Minimum Grade	Notes
Upper Division Human Systems Engineering Elective	3		

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• Technical Electives should be chosen from the subjects below. Three credit hours must be upper division.

Term hours subtotal:

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

Elective

Technical Electives	Human System Engineering Electives		
BIO Elective	HSE 422: Human Factors in Sport		
BMI Elective	HSE 423: Human Factors in Transportation		
CIS Elective	HSE 424: Human Automation Interaction		
CSE Elective	HSE 425: Human Factors in Medical		
EEE Elective	Systems		
	HSE 426: Training and Expertise		
GIT Elective	USE 427. Designing for Learning		
HSE Elective	HSE 427: Designing for Learning		
IEE Elective	HSE 428: Judgment and Decision Making HSE 429: Product Design and Evaluation		
IFT Elective			
OMT Elective	HSE 484: Internship		
PSY Elective	HSE 494: Special Topics		
PSY Elective	HSE 499: Individualized Instruction		
SER Elective			
TEM Elective			
TMC Elective			
TWC Elective			

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• 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.