











## 2022 - 2023 Major Map

### Human Systems Engineering (User Experience), BS

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

Term 1 - A 0 - 7 Credit Hours <b>Critical course signified by</b> 	Hours	Minimum Grade	Notes
 ASU 101-TPS: The ASU Experience OR FSE 310: Transfer Success in Engineering	1		<ul style="list-style-type: none"> <li>ASU 101 is required of all first-year students; FSE 310 is required for all new transfer students; LIA 294 is highly recommended for all new veteran students.</li> <li>Prep for success using the <a href="#">First-Year Student Guide</a>.</li> <li>Join a <a href="#">Fulton community</a>.</li> <li>Explore <a href="#">engineering and technical professions</a>.</li> </ul>
 HSE 101: Introduction to Human Systems Engineering (SB)	3	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:	7		
Term 1 - B 7 - 14 Credit Hours	Hours	Minimum Grade	Notes
MAT 170: Precalculus (MA)	3	C	<ul style="list-style-type: none"> <li>View ASU Online first-year student registration information <a href="#">here</a>.</li> </ul>
Natural Science - Quantitative (SQ)	4		
Term hours subtotal:	7		
Term 2 - A 14 - 23 Credit Hours <b>Critical course signified by</b> 	Hours	Minimum Grade	Notes
 HSE 230: Statistics for Human Systems Research I (CS)	3	C	<ul style="list-style-type: none"> <li>Create a <a href="#">Handshake</a> profile.</li> <li>Get involved with EPICS, the Generator Labs, and the <a href="#">Fulton Start-Up Center</a>.</li> </ul>
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			
FSE 100: Introduction to Engineering	2		
Elective	1		
Term hours subtotal:	9		
Term 2 - B 23 - 30 Credit Hours <b>Critical course signified by</b> 	Hours	Minimum Grade	Notes
Humanities, Arts and Design (HU) AND Cultural Diversity in the U.S. (C)	3		
Natural Science - General (SG) OR Natural Science - Quantitative (SQ)	4		
 Complete ENG 101 OR ENG 105 OR ENG 107 course(s).			
Term hours subtotal:	7		
Term 3 - A 30 - 36 Credit Hours <b>Critical course signified by</b> 	Hours	Minimum Grade	Notes
 HSE 290: Experimental Methods for Human Systems Research (L)	3	C	<ul style="list-style-type: none"> <li>Prep for success using the <a href="#">Sophomore Guide</a>.</li> </ul>
HSE 223: Applied Biology of Human Behavior (SB)	3	C	
Term hours subtotal:	6		
Term 3 - B 36 - 45 Credit Hours <b>Critical course signified by</b> 	Hours	Minimum Grade	Notes

HSE 224: Applied Social Science (SB)	3	C
User Experience Concentration Course	3	C
Humanities, Arts and Design (HU) AND Historical Awareness (H)	3	
❗ Complete Mathematics (MA) 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	<ul style="list-style-type: none"> <li>Pursue an undergraduate research experience.</li> <li>Apply for internships.</li> <li>Attend career fairs and events.</li> </ul>
CIS 105: Computer Applications and Information Technology (CS)			
OR CSE 180: Computer Literacy (CS) OR EDT 180: Technology Literacy: Problem Solving using Digital Technology Applications (CS) OR IFT 101: Information Technology Programming Logic	3		
Term hours subtotal:	6		

Term 4 - B 51 - 60 Credit Hours	Hours	Minimum Grade	Notes
User Experience Concentration Course	3	C	
Global Awareness (G)	3		
Elective	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 (SB)	3	C	<ul style="list-style-type: none"> <li>Plan for success using the Junior Guide.</li> <li>Network at student organization competitions or professional societies.</li> </ul>
Upper Division HSE 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	
Elective	3		
Term hours subtotal:	6		

Term 6 - A 75 - 84 Credit Hours Necessary course signified by ★	Hours	Minimum Grade	Notes
★ HSE 323: Perceptual Systems (SB)	3	C	<ul style="list-style-type: none"> <li>Research and prepare for graduate school.</li> <li>Apply for an engineering 4+1 program.</li> <li>Develop a professional profile online.</li> </ul>
Upper Division HSE Elective	3		
User Experience Concentration Course	3	C	
Term hours subtotal:	9		

Term 6 - B 84 - 90 Credit Hours Necessary course signified by ★	Hours	Minimum Grade	Notes
HSE 325: Human-Computer Interaction	3	C	
Upper Division HSE Elective	3		
★ Complete Cultural Diversity in the U.S. (C) AND Global Awareness (G) AND Historical Awareness (H) course(s).			
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 (CS)	3		<ul style="list-style-type: none"> <li>Plan for success using the Senior Guide.</li> <li>Apply for full-time positions.</li> <li>Complete an in person or virtual practice interview.</li> </ul>
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	
Upper Division Elective OR HSE 484: Internship	3		
Elective	3		
Term hours subtotal:	9		
Term 8 - A 105 - 111 Credit Hours <b>Necessary course signified by</b> ★	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	HSE 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
HSE 427: Designing for Learning	
HSE 429: Product Design and Evaluation	
TWC 411: Principles of Visual Communication (L)	
TWC 414: Visualizing Data and Information	

**Notes:**

- First-Year Composition: All students are placed in ENG 101 unless submission of SAT, ACT, Accuplacer, IELTS, or TOEFL score, or college-level transfer credit or test credit equivalent to ASU's first-year composition course(s), determine otherwise. Students on Polytechnic, Downtown Phoenix and West Campuses are encouraged to complete the Directed Self-Placement survey to choose the first-year composition option they believe best suits their needs. Visit: <https://cisa.asu.edu/DSP>
- Mathematics Placement Assessment score determines placement in first mathematics course.

**Total Hours:** 120

**Upper Division Hours:** 45 minimum

**Major GPA:** 2.00 minimum

**Cumulative GPA:** 2.00 minimum

**Total hrs at ASU:** 30 minimum

**Hrs Resident Credit for**

**Academic Recognition:** 56 minimum

**Total Community College Hrs:** 64 maximum

**General University Requirements Legend**

General Studies Core Requirements:

- Literacy and Critical Inquiry (L)
- Mathematical Studies (MA)
- Computer/Statistics/Quantitative Applications (CS)
- Humanities, Arts and Design (HU)
- Social-Behavioral Sciences (SB)
- Natural Science - Quantitative (SQ)
- Natural Science - General (SG)

General Studies Awareness Requirements:

- Cultural Diversity in the U.S. (C)
- Global Awareness (G)
- Historical Awareness (H)

First-Year Composition

General Studies designations listed next to courses on the major map were valid for the 2022 - 2023 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.