### 2018 - 2019 Major Map

**Human Systems Engineering, BS**

**School/College:** Ira A. Fulton Schools of Engineering  
**Location:** Polytechnic campus  
**ESHSEBS**

#### Term 1 - 14 Credit Hours

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
<th>Minimum Grade</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASU 101-TPS: The ASU Experience</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HSE 101: Introduction to Human Systems Engineering (SB)</td>
<td>3</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>MAT 170: Precalculus (MA)</td>
<td>3</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>ENG 101 or ENG 102: First-Year Composition OR</td>
<td>3</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>ENG 105: Advanced First-Year Composition OR</td>
<td>3</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>ENG 107 or ENG 108: First-Year Composition</td>
<td>3</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>BIO 100: The Living World (SQ) OR BIO 181: General Biology I (SQ) OR BIO 201: Human Anatomy and Physiology I (SG)</td>
<td>4</td>
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<td></td>
</tr>
</tbody>
</table>

**Term hours subtotal:** 14

- An SAT, ACT, Accuplacer, IELTS, or TOEFL score determines placement into first-year composition courses
- ASU Mathematics Placement Assessment score determines placement in Mathematics course
- ASU 101 is required of all freshman students; Transfer students are required to take FSE 394.
- Prep for success using the Freshman Guide.
- Join a Fulton community.
- Explore engineering and technical professions.

#### Term 2 - 14 - 30 Credit Hours

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
<th>Minimum Grade</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSE 230: Statistics for Human Systems Research I (CS)</td>
<td>3</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>EGR 101: Foundations of Engineering Design Project I</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENG 101 or ENG 102: First-Year Composition OR</td>
<td>3</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>ENG 105: Advanced First-Year Composition OR</td>
<td>3</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>ENG 107 or ENG 108: First-Year Composition</td>
<td>3</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Humanities, Arts and Design (HU) AND Cultural Diversity in the U.S. (C)</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Natural Science - Quantitative (SQ)</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Complete ENG 101 OR ENG 105 OR ENG 107 course(s).</td>
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</tbody>
</table>

**Term hours subtotal:** 16

- Create a Handshake profile.
- Get involved with EPICS, the Generator Labs, and the Fulton Start-Up Center.

#### Term 3 - 30 - 45 Credit Hours

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
<th>Minimum Grade</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSE 290: Experimental Methods for Human Systems Research (L)</td>
<td>3</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>HSE 223: Applied Biology of Human Behavior (SB)</td>
<td>3</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Humanities, Arts and Design (HU) AND Historical Awareness (H)</td>
<td>3</td>
<td></td>
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</tr>
<tr>
<td>Technical Elective</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Elective</td>
<td>3</td>
<td></td>
<td></td>
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<tr>
<td>Complete MAT 170 course(s).</td>
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</tbody>
</table>

**Term hours subtotal:** 15

- Prep for success using the Sophomore Guide.
- Consult the Resume, Presentation, and Resource Library for tips on how to create a technical resume, job shadow, do informational interviews and mentor with alumni.

#### Term 4 - 45 - 60 Credit Hours

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
<th>Minimum Grade</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSE 225: Human Systems Integration</td>
<td>3</td>
<td>C</td>
<td></td>
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<tr>
<td>Term</td>
<td>Credit Hours</td>
<td>Necessary course signified by</td>
<td>Hours</td>
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<tr>
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<tr>
<td>5</td>
<td>60 - 75</td>
<td>HSE 390: Qualitative Research Methods (L)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>HSE 324: Applied Cognitive Science (SB)</td>
<td>3</td>
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<tr>
<td></td>
<td></td>
<td>Technical Elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Upper Division Elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Term hours subtotal:</td>
<td>15</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Term</th>
<th>Credit Hours</th>
<th>Necessary course signified by</th>
<th>Hours</th>
<th>Minimum Grade</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>HSE 325: Human-Computer Interaction</td>
<td>3</td>
<td>C</td>
<td>Network at student organization competitions or professional societies.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Technical Elective</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Upper Division Elective</td>
<td>3</td>
<td>ME</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Elective</td>
<td>3</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>Complete Cultural Diversity in the U.S. (C) AND Global Awareness (G) AND Historical Awareness (H) course(s).</td>
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<tr>
<td></td>
<td></td>
<td>Term hours subtotal:</td>
<td>15</td>
<td></td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Term</th>
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<th>Necessary course signified by</th>
<th>Hours</th>
<th>Minimum Grade</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td>90 - 105</td>
<td>HSE 430: Statistics for Human Systems Research II (CS)</td>
<td>3</td>
<td>C</td>
<td>Research and prepare for graduate school.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Complete 2 courses:</td>
<td></td>
<td></td>
<td>Apply for an engineering 4+1 program.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>HSE Upper Division Elective</td>
<td>6</td>
<td></td>
<td>Develop a professional profile online.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Upper Division Technical Elective</td>
<td>3</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>Upper Division Elective OR HSE 484: Internship</td>
<td>3</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>Term hours subtotal:</td>
<td>15</td>
<td></td>
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<th>Term</th>
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<th>Necessary course signified by</th>
<th>Hours</th>
<th>Minimum Grade</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Complete 2 courses:</td>
<td></td>
<td></td>
<td>Use the Sun Devil CareerLink to apply for full-time positions.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>HSE Upper Division Elective</td>
<td>6</td>
<td></td>
<td>Complete an in-person or practice interview.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Elective</td>
<td>6</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Term hours subtotal:</td>
<td>15</td>
<td></td>
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</tr>
</tbody>
</table>
• Technical electives should be chosen from the prefixes below. 3 credit hours must be upper division.

<table>
<thead>
<tr>
<th>Technical Electives</th>
</tr>
</thead>
<tbody>
<tr>
<td>AME Elective</td>
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<tr>
<td>AMT Elective</td>
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<tr>
<td>BIO Elective</td>
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<td>BME Elective</td>
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<tr>
<td>BMI Elective</td>
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<td>CAP Elective</td>
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<tr>
<td>CIS Elective</td>
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<tr>
<td>CSE Elective</td>
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<tr>
<td>EEE Elective</td>
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<tr>
<td>EGR Elective</td>
</tr>
<tr>
<td>GIT Elective</td>
</tr>
<tr>
<td>HSE Elective</td>
</tr>
<tr>
<td>IEE Elective</td>
</tr>
<tr>
<td>IFT Elective</td>
</tr>
<tr>
<td>MFG Elective</td>
</tr>
<tr>
<td>PSY Elective</td>
</tr>
<tr>
<td>SER Elective</td>
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<tr>
<td>TEM Elective</td>
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<tr>
<td>TMC Elective</td>
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<tr>
<td>TWC Elective</td>
</tr>
</tbody>
</table>

**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 on the major map are current for the 2018 - 2019 academic year.