BSISE, Systems Engineering Track

To obtain a Bachelor of Science degree in Industrial and Systems Engineering, in the Systems Engineering Track, students are required to complete the following courses:

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Select one of the following science electives:

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Any 300 or 400 Mathematics

### Engineering

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### Industrial and Systems Engineering

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<td>STATICS</td>
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<td>EE 213</td>
<td>ELECTRICAL CIRCUIT ANALYSIS I</td>
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<td>ISE 321</td>
<td>ENGINEERING ECONOMY</td>
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<td>ISE 327</td>
<td>MANAGEMENT SYSTEMS ANALYSIS</td>
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<td>MAE 341</td>
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<td>SYS ANALYSIS/DESIGN II</td>
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### Systems Engineering Track

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<td>INTRO SYSTEMS ENGINEERING</td>
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<td>ISE 426</td>
<td>DSGN &amp; ANAL OF EXPERIM</td>
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<tr>
<td>ISE 480</td>
<td>SYSTEMS ENGINEERING MODELING</td>
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Technical Elective (200+ level Science/Engineering course approved by advisor)

Select System Track Option/Courses

- **MAE Systems (MAE 200, MAE 272 and (MAE 284 & MAE 488) or (MAE 330 & MAE 343)
- **Elec & Embedded Comp Systems (EE 202, CPE 221, CPE 348 and (CPE 212, CPE 323/325 or CPE 449)
- **Control Systems (EE 382, EE 383, EE 386, EE 486)

**Total Semester Hours**: 127
1. Students must take one literature and one history course. Students must also take either a second literature or history course to complete a sequence. (EH 207 + EH 208, EH 209 + EH 210, HY 103 + HY 104, or HY 221 + HY 222)
2. Based on Math placement (http://www.uah.edu/science/departments/math/undergraduate-students/placement/), prerequisite (MA 112 and/or MA 113) Mathematics courses may be required.
3. For choices see the World Languages and Culture (http://catalog.uah.edu/undergrad/colleges-departments/arts-humanities-social-sciences/foreign-languages-literatures/#coursertext) department.

### Year 1

#### Fall

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#### Spring

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### BSISE, Systems Engineering Track

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**Spring**

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**Term Semester Hours:** 16

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**Year 4**

**Fall**

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**Term Semester Hours:** 15

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**Spring**

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**Term Semester Hours:** 15

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**Total Semester Hours:** 127