# Bachelor of Science, Major in Design and Development

The Bachelor of Science, Major in Design and Development program at Sam Houston State University offers a comprehensive curriculum designed to provide students with a strong foundation in both theoretical and practical aspects of design and development. The program is structured to ensure a well-rounded education that includes core curriculum components as well as specific requirements for the major and minor.

## Core Curriculum

- **Component Area I (Communication)**: 6 hours
- **Component Area II (Mathematics)**: 3 hours
- **Component Area III (Life and Physical Science)**: 8 hours
- **Component Area IV (Language, Philosophy, and Culture)**: 3 hours
- **Component Area V (Creative Arts)**: 3 hours
- **Component Area VI (U.S. History)**: 6 hours
- **Component Area VII (Political Science/Government)**: 6 hours
- **Component Area VIII (Social and Behavioral Sciences)**: 3 hours
- **Component Area IX (Component Area Option)**: 4 hours

### Degree Specific Requirements

Select one of the following:

- ACOM 3360 Communication Skills for Agriculturists
- ENGL 3330 Intro To Technical Writing

Select 8 hours from BIOL, CHEM, GEOL OR GEOG 1401 (excluding PHYS)

### Major Core

- ETEC 1010 Engineering Foundations: 1-2 hours
- ETEC 1371 Descriptive Geometry: 3 hours
- ETEC 3363 Architectural Design: 3 hours
- ETEC 3374 Time And Motion Study: 3 hours
- or INED 4310 Occup. Human Relations in CTE: 3 hours
- ETEC 3375 Statics: 3 hours
- ETEC 4367 Engineering Materials Techn: 3 hours
- ETEC 4384 Supervisory Personnel Practice: 3 hours
- or ETEC 3300 Technology Innovations: 3 hours
- ETEC 4391 Work Base Mentorship: 3 hours

### Major

- ETSM 4382 Industrial Safety: 3 hours

### Minor

- Minor (Suggest GBA or a program in ETEC Department): 9 hours

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[1] The major offers a flexible course selection to accommodate individual learning goals and career aspirations. Students are encouraged to consult with their academic advisors to tailor their course selection to their specific interests and career objectives.
Bachelor of Science, Major in Design and Development

<table>
<thead>
<tr>
<th>Minor (9 hours advanced)</th>
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<tbody>
<tr>
<td>Total Hours</td>
<td>123-124</td>
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1  MATH 1316 or MATH 1314 or MATH 1420 or MATH 1324 satisfies the Core Curriculum requirement for Component Area II (Mathematics) and the Degree Specific requirement.

### First Year

#### Fall

<table>
<thead>
<tr>
<th>Component Area I (catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentarea1)</th>
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<td>3 ETEC 1371</td>
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<td>3 MATH 1316</td>
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#### Hours

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### Second Year

#### Fall

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<th>PHYS 1301 &amp; PHYS 1101</th>
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### Third Year

#### Fall

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#### Hours

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### Fourth Year

#### Fall

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<th>Component Area VII (catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentarea7)</th>
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Total Hours: 123-124

1. Satisfies Core Curriculum requirement for Component Area II (Mathematics). MATH 1420 also satisfies one semester credit hour of the Core Curriculum requirement for Component Area IX (Core Component Option).

2. Must be taken from BIOL, CHEM, GEOL, or GEOG 1401 only.