BACHELOR OF SCIENCE, DOUBLE MAJOR IN EDUCATION AND COMPOSITE SCIENCE

This degree is comprised of coursework from several disciplines; therefore, it will enable you to teach Biology, Chemistry, Geography and Geology (i.e., Earth Science), and Physics (including astronomy). Because individuals who have this certification can teach several disciplines of science, they are especially sought after by schools. This degree combines the core science coursework with that required for the Secondary Education certification. It also allows students to focus in an area of science that interests them by choosing designated electives within the focus area. Accordingly, after having completed the common core of science classes, students then focus their remaining coursework in an area of particular interest to them, such as chemistry or geology. Because this degree encompasses several science certifications, it requires 130-133 hours of coursework, depending upon the area of specialization. Below is a summary of the Composite Science degree requirements.

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<th>Code</th>
<th>Title</th>
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<td>Methods of Teaching in Secondary Schools</td>
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<td>CISE 4374</td>
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<td>Learning and Instruction for Children with Disabilities</td>
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<td>Teaching English As A Second Language</td>
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<td>GEOL 1403</td>
<td>Physical Geology</td>
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<td>GEOL 1404</td>
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<td>Stars &amp; Galaxies</td>
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</table>
Bachelor of Science, Double Major in Education and Composite Science

- or CHEM 2323/2123  Organic Chemistry I: Lecture  3

**Major: Concentration**  6-8

**Student Teaching**

- CISE 4394  Creating an Environment For Learning-Secondary Education  3
- CISE 4396  Student Teaching - Secondary Classroom  3
- CISE 4397  Student Teaching - Secondary Classroom  3

**Minor: Not Required** ^8,9

**Total Hours**  130-133

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1. MATH 1314 satisfies the Core Curriculum requirement for Component Area II (Mathematics) as well as the major. Students may need to take MATH 1316 in order to take PHYS 1301 unless a prerequisite override is given by the Physics Department Chair.

2. CHEM 1411 and CHEM 1412 satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science) and the major.

3. PSYC 1301 is recommended to satisfy the Core Curriculum requirement for Core Component Area VII (Social and Behavioral Sciences).

4. GEOL 3330 is taken for Biology and Earth Science Concentrations, and CHEM 3438 is taken for the Chemistry Concentration.

5. CHEM 3438 is offered Fall or Summer I.

6. The following courses will also satisfy this requirement: BIOL 4361, BIOL 4306 or PHIL 4306, HLTH 4390, or GEOG 3301.

7. PHYS 1403 is taken for the Biology and Earth Science concentration, and CHEM 2323 and CHEM 2123 are taken for the Chemistry Concentration.

8. A minor is not required for this degree program; however, a student has the option to add a minor, but to do so additional semester credits hours may be needed above the degree program's stated total semester credit hours.

9. All minors can be paired with this degree program.

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**Notes**

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

Students must earn cumulative 2.0 minimum GPA in all Composite Science major coursework.

If the math requirement for PHYS 1301 is not met, or a prerequisite override is not given, MATH 1316 may need to be taken, which will add 3 semester credit hours to the degree plan.

Students must earn a "C" or better in all Education coursework. Students must earn an overall GPA of 2.75 (overall or in the last 60 hours) to be eligible for teacher certification.

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**Concentrations**

**Geology Concentration**

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<td>GEO 4331</td>
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**Total Hours**  9-12

**Biology Concentration**

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<td>BIOL 3450</td>
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**Total Hours**: 11-12

### Chemistry Concentration

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Choose two of the following: 6-7

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<td>CHEM 3361</td>
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**Total Hours**: 13-14

\(^1\) CHEM 4442 requires CHEM 2401 as a prerequisite.

### First Year

**Fall**

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**Total**: 19

\(^2\) CHEM 1411 requires BIOL 3461 as a prerequisite.
## Bachelor of Science, Double Major in Education and Composite Science

### Second Year

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<th>Component Area VII (<a href="http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareavii">link</a>)</th>
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<th>Hours</th>
<th>Spring</th>
<th>Hours</th>
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<td>CISE 3384</td>
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**Total Hours: 17**

### Third Year

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<td>4 STAT 3379</td>
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**Total Hours: 19**

### Fourth Year

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**Total Hours: 15-16**

**Total Hours: 130-133**

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1. MATH 1314 satisfies the Core Curriculum requirement for Component Area II (Mathematics) as well as the major. Students may need to take MATH 1316 in order to take PHYS 1301 unless a prerequisite override is given by the Physics Department Chair.
2. CHEM 1411 and CHEM 1412 satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science) and the major.
3. PSYC 1301 is recommended to satisfy the Core Curriculum requirement for Core Component Area VIII (Social and Behavioral Sciences).
4. PHYS 1403 is taken for the Biology and Earth Science concentration, and CHEM 2323 and CHEM 2123 are taken for the Chemistry Concentration.
5. The following courses will also satisfy this requirement: BIOL 4361, BIOL 4306 or PHIL 4306, HLTH 4390, or GEOG 3301.
6. GEOL 3330 is taken for the Biology and Earth Science Concentrations, and CHEM 3438 is taken for the Chemistry Concentration.
7. CHEM 3438 is offered Fall or Summer I.

### Notes

- Students must earn a 2.0 minimum overall GPA in all coursework.
- Students must meet a 2.0 minimum overall major GPA in all major coursework.
- Students must earn a 2.0 minimum SHSU GPA in all coursework.
- Students must meet a 2.0 minimum SHSU major GPA in all major coursework.
- Students must earn cumulative 2.0 minimum GPA in all Composite Science major coursework.

If the math requirement for PHYS 1301 is not met, or a prerequisite override is not given, MATH 1316 may need to be taken, which will add 3 semester credit hours to the degree plan.
Students must earn a "C" or better in all Education coursework. Students must earn an overall GPA of 2.75 (overall or in the last 60 hours) to be eligible for teacher certification.

A minor is not required for this degree program; however, a student has the option to add a minor, but to do so additional semester credits hours may be needed above the degree program's stated total semester credit hours.

All minors can be paired with this degree program.

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<tr>
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<td>BIOL 4490</td>
<td>Cell Biology</td>
<td></td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td></td>
<td>12</td>
</tr>
<tr>
<td><strong>Chemistry Concentration</strong></td>
<td></td>
<td>6-7</td>
</tr>
<tr>
<td>CHEM 2325</td>
<td>Organic Chemistry II: Lecture</td>
<td>4</td>
</tr>
<tr>
<td>&amp; CHEM 2125</td>
<td>Organic Chemistry II: Lab</td>
<td></td>
</tr>
<tr>
<td>CHM 3367</td>
<td>Introduction to Inorganic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td><strong>Choose two of the following:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 3339</td>
<td>Biochemistry II</td>
<td></td>
</tr>
<tr>
<td>CHEM 4442</td>
<td>Air Quality</td>
<td></td>
</tr>
<tr>
<td>CHEM 3361</td>
<td>Discoveries In Chemistry and Textiles</td>
<td></td>
</tr>
</tbody>
</table>
CHEM 3368 Environmental Chemistry

**Total Hours** 13-14

1. CHEM 4442 requires CHEM 2401 as a prerequisite.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's 60x30TX plan and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS with a Double Major in Education and Composite Science is designed to provide graduates with the following marketable skills:

- Prepared to teach Biology, Physics, Chemistry, Earth Science and Astronomy content for Texas teacher certification.
- Prepared to implement evidence-based methods of teaching and learning.
- Fully qualified to teach in Texas public high schools