UNIVERSITY STUDIES - BS, SCIENCE FOR SECONDARY TEACHING CONCENTRATION

The BS in University Studies, Science for Secondary Teaching area of concentration consists of courses that give students desiring secondary-school teaching credentials a solid foundation in life, earth and physical sciences. In particular, the courses chosen encompass the science composite areas test by the State of Texas and TExES. These are the courses currently required for the science composite certificate.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATMO 201</td>
<td>Weather and Climate 1</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 119</td>
<td>Fundamentals of Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 120</td>
<td>Fundamentals of Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 202</td>
<td>College Physics 1</td>
<td>4</td>
</tr>
<tr>
<td>ASTR 101</td>
<td>Basic Astronomy</td>
<td>4</td>
</tr>
<tr>
<td>ASTR 111</td>
<td>Overview of Modern Astronomy</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 206</td>
<td>Newtonian Mechanics for &amp; PHYS 22 Engineering and Science</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 101</td>
<td>Principles of Geology &amp; GEOL 102 and Principles of Geology Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 203</td>
<td>Planet Earth &amp; GEOG 213 and Planet Earth Lab</td>
<td>4</td>
</tr>
</tbody>
</table>

Select 12 hours from the following: 2

BIOL 300-499 (http://catalog.tamu.edu/undergraduate/course-descriptions/biol/)
CHEM 300-499 (http://catalog.tamu.edu/undergraduate/course-descriptions/chem/)
GEOG 300-499 (http://catalog.tamu.edu/undergraduate/course-descriptions/geog/)
GEOL 300-499 (http://catalog.tamu.edu/undergraduate/course-descriptions/geol/)
OCNG 300-499 (http://catalog.tamu.edu/undergraduate/course-descriptions/ocng/)

PHYS 300-499 (http://catalog.tamu.edu/undergraduate/course-descriptions/phys/)

Select one of the following: 4

- MATH 147 Calculus I for Biological Sciences
- MATH 151 Engineering Mathematics I
- MATH 171 Calculus I

Select one of the following: 3

- MATH 148 Calculus II for Biological Sciences
- MATH 152 Engineering Mathematics II
- MATH 172 Calculus II

Select one of the following: 3

- STAT 201 Elementary Statistical Inference

Select one of the following: 3

- INST 210 Understanding Special Populations
- INST 222 Foundations of Education in a Multicultural Society
- SOCI 217 Introduction to Race and Ethnicity

American history (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#american-history)
Communication (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#communication)
Creative arts (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#creative-arts)
Language, philosophy and culture (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#language-philosophy-culture)
Minor 1 15-18
Minor 2 15-18
General electives 4 2-8

Total Semester Credit Hours 120

1. Must make a grade of C or better.
2. Selection should be from courses from which prerequisites have been satisfied.
3. Completion of four semesters of upper-level ROTC may be substitute for three hours of this requirement.
4. Select from any 100-499 not used elsewhere.

Graduation requirements include a requirement for 3 hours of International and Cultural Diversity (http://catalog.tamu.edu/undergraduate/general-information/degree-information/international-cultural-diversity-requirements/) courses and 3 hours of Cultural Discourse (http://catalog.tamu.edu/undergraduate/general-information/degree-information/cultural-discourse-requirements/) courses. A course satisfying a Core category, a college/department requirement, or a general elective can be used to satisfy this requirement. See academic advisor.