

## Integrated Science Major (7-12) Licensure Requirements Advising Checklist

<b>Required Education Courses (10.25 units)</b>	
<input type="checkbox"/> EDUC 110 The Role of the School (fall & spring) <input type="checkbox"/> EDUC 251 Psychological Foundations of Education w/ lab (1.25) (fall & spring) <input type="checkbox"/> EDUC 255 Inclusive Classroom Management (spring only) <input type="checkbox"/> EDUC 350 Middle School & Secondary Teaching Methods (spring only) <input type="checkbox"/> EDUC 359 Middle School & Secondary Field Practicum (0.5) (fall only) <input type="checkbox"/> EDUC 367 Secondary Methods: Science (0.5) (fall only) <input type="checkbox"/> EDUC 377 Content Area Literacy (fall only) <input type="checkbox"/> EDUC 492 AYA/MA Student Teaching (3.0 units) (spring only) <input type="checkbox"/> EDUC 499 Student Teaching Seminar (spring only)	
<b>Biology</b>	
<input type="checkbox"/> BIOL 120 Introduction to Cell Biology and Lab (1.25) <input type="checkbox"/> BIOL 271 Genetics <input type="checkbox"/> BIOL 272 Genetics Lab (0.25) <input type="checkbox"/> BIOL 251 Human Anatomy and Physiology (1.25) <input type="checkbox"/> BIOL 261 Evolution	
<b>Chemistry Courses</b>	
<input type="checkbox"/> CHEM 110 General Chemistry I and Lab (1.25) <input type="checkbox"/> CHEM 111 General Chemistry II and Lab (1.25) <input type="checkbox"/> CHEM 270 Analytical Chemistry (1.25)	
<b>Environmental Studies and Geology Courses</b>	
<input type="checkbox"/> ENVS 111 Physical Geography <input type="checkbox"/> ENVS 112 Ecology and the Human Future <input type="checkbox"/> GEOG 245 Weather & Climate	
<b>Physics and Astronomy Courses (3.50 units)</b>	
<input type="checkbox"/> PHYS 115 Principles of Physics I and Lab (1.25) <input type="checkbox"/> PHYS 116 Principles of Physics II and Lab (1.25) <input type="checkbox"/> ASTR 111 Star, Galaxies & Cosmology	
<b>Mathematics (1.0 units)</b>	
<input type="checkbox"/> MATH 110 Calculus I	
<b>Core Competencies Recommended Courses (choose 1 from each category)</b>	
<i>*No more than 2 Competency courses can come from the same prefix (i.e. no more than 2 EDUC courses can count for your Competency credits)</i>	
<b>Act Responsibly (AR)</b> <input type="checkbox"/> ENVS 110 Introduction to Environment & Sustainability  <b>Engage Diversity (ED)</b> <input type="checkbox"/> Free Choice  <b>Examine Power &amp; Inequities (EPI)</b> <input type="checkbox"/> EDUC 110 The Role of the School  <b>Learn a Second Language (LSL)</b> <input type="checkbox"/> Level II of any language  <b>Listen, Imagine, &amp; Understand (LIU)</b> <input type="checkbox"/> Free Choice  <b>Question Scientifically (QS)</b> <input type="checkbox"/> ASTR 111 Stars, Galaxies, and Cosmology <input type="checkbox"/> CHEM 110 General Chemistry I	<b>Reason Formally &amp; Quantitatively (RFQ)</b> <input type="checkbox"/> MATH 110 Calculus I <input type="checkbox"/> GEOG 245 Weather & Climate  <b>Think Aesthetically (TA)</b> <input type="checkbox"/> Free Choice  <b>Write &amp; Speak Effectively (WSE)</b> <input type="checkbox"/> EDUC 377 Content Area Literacy
<b>Additional Requirements to Graduate:</b>  <input type="checkbox"/> CNX 100 How to Change Your World <input type="checkbox"/> ENG 105 College Writing Seminar <input type="checkbox"/> Connection Experience (Student teaching)	

*Each course is 1 unit or 3.70 semester hours, unless otherwise specified.  
 Note: Students also must complete the state-mandated examinations for licensure.*

## Sample Schedule

	Fall	Spring
<b>Year One</b>	<p style="text-align: right;">4.25 units</p> EDUC 110 –Role of the School (EPI) ENG 105 MATH 110 (RFQ) Language 110 Activity/Athletic course	<p style="text-align: right;">4.25 units</p> ENVS 111 BIOL 120 (1.25) Language 111 (LSL) CNX 100
<b>Year Two</b>	<p style="text-align: right;">4.25 units</p> EDUC 251 – Psychological Foundations of Education CHEM 110 and Lab (1.25) ENVS 111 (AR) ASTR 111 (QS)	<p style="text-align: right;">4.50 units</p> CHEM 111 and Lab (1.25) BIOL 251 and Lab (1.25) EDUC 255 (spring only) ED core competency
<b>Year Three</b>	<p style="text-align: right;">4.50 Units</p> PHYS 115 and Lab (1.25) BIOL 271 BIOL 272 (0.25) LIU core competency TA core competency	<p style="text-align: right;">4.25 units</p> EDUC 350 – Middle School & Secondary Teaching Methods (spring only) PHYS 116 and Lab (1.25) ENVS 112 GEOG 245
<b>Year Four</b>	<p style="text-align: right;">4.0 units</p> CHEM 270 EDUC 359 – Middle School & Secondary Field Practicum (0.5)* (fall only) EDUC 367 – Secondary Methods: Science (0.5) (fall only) EDUC 377 – Content Area Literacy (WSE) (fall only) BIOL 261  *50 hours of field experience in a high school setting	<p style="text-align: right;">4.0 units</p> EDUC 492 AYA/MA Student Teaching (3.0 units) (spring only) EDUC 499 Student Teaching Seminar (spring only)