

**“Sample” Academic Plan for Secondary Education, (SECED/ESP) Earth and Space Science Teaching Option**  
**Effective May 2012**

Semester 1	Credits	Semester 2	Credits
<a href="#">ENGL 015*</a> (GWS) (ETM)	3	<a href="#">CHEM 110</a> (GN) (ETM)	3
<a href="#">MATH 140</a> (GQ) (ETM)	4	<a href="#">CHEM 111</a> (GN) (ETM)	1
<a href="#">BIOL 110</a> (GN) (ETM)	4	<a href="#">MATH 141</a> or <a href="#">STAT 200</a> (GQ) (ETM)	4
<a href="#">PSYCH 100</a> (GS) (ETM)	3	<a href="#">CAS 100A*</a> (GWS)	3
<a href="#">EDUC 100S</a> (FYS)	1	Health & Physical Activity (GHA)	1.5
		<a href="#">EARTH 100</a> (GN), <a href="#">101</a> (GN), <a href="#">103</a> , or <a href="#">105</a>	3
Total Credits:	15	Total Credits:	15.5
Semester 3	Credits	Semester 4	Credits
<a href="#">EDPSY 014</a> (ETM)	3	<a href="#">EDTHP 400 Level Selection</a> or <a href="#">EDTHP 115</a>	3
<a href="#">CHEM 112</a> (GN) (ETM)	3	<a href="#">PHYS 250</a> or <a href="#">211</a> (GN) (ETM)	4
<a href="#">CHEM 113</a> (GN) (ETM)	1	Arts Selection (GA)	3
<a href="#">CI 295</a> (ETM)	2	<a href="#">METEO 003</a> (GN), <a href="#">201</a> , or <a href="#">300</a>	3
<a href="#">GEOSC 001</a> (GN), <a href="#">020</a> (GN), or <a href="#">071</a>	3	<a href="#">CI 280</a>	3
<a href="#">Literature Selection</a> (GH) (ETM)	3		
Health & Physical Activity (GHA)	1.5		
Total Credits:	16.5	Total Credits:	16
Semester 5	Credits	Semester 6	Credits
<a href="#">PHYS 251</a> or <a href="#">212</a> or <a href="#">213</a> (GN)	2-4	<a href="#">SCIED 411</a>	3
<a href="#">ENGL 202A</a> or <a href="#">B</a> (GWS)	3	<a href="#">SPLED 403B</a>	3
<a href="#">GEOSC 040</a> (GN), <a href="#">440</a> , <a href="#">445</a> ; <a href="#">METEO 22</a> , or <a href="#">BIOL 435</a> or <a href="#">482</a>	2-4	<a href="#">GEOSC 021</a> (GN) or <a href="#">204</a>	3-4
<a href="#">ASTRO 010</a> & <a href="#">011</a> (GN) or <a href="#">291</a>	3	<a href="#">HD FS 239</a> (GS) or <a href="#">PSYCH 412</a>	3
<a href="#">SPLED 400</a>	4	<b>200-400 Level Selection</b> (EARTH, GEOSC, METEO, ASTRO, related field, or <a href="#">BIOL 427</a> )	3
Total Credits:	14-18	Total Credits:	15 -16
Semester 7	Credits	Semester 8	Credits
<a href="#">SCIED 412</a>	3	<a href="#">CI 495E</a>	15
Arts Selection (GA)	3	<i>No add'l coursework permitted during Student Teaching</i>	
<a href="#">CI 495C</a>	3		
<b>200-400 Level Selection</b> (EARTH, GEOSC, METEO, ASTRO, related field, or <a href="#">BIOL 427</a> )	3		
<b>200-400 Level Selection</b> (EARTH, GEOSC, METEO, ASTRO, related field, or <a href="#">BIOL 427</a> )	3		
Total Credits:	15	Total Credits:	15

- **Bold** type indicates courses requiring a quality grade of C or better.
- ***Italic Bold*** type indicates courses requiring a quality grade of C or better and that satisfy both major and General Education requirements.
- GWS, GHA, GQ, GN, GA, GH, and GS are codes used to identify General Education requirements.
- Must complete at least 3 cr. of United States (US) and 3 cr. of International Cultures (IL).
- W is the code used to designate courses that satisfy University Writing Across the Curriculum requirement.
- ETM notes a course is required for entrance to major/certification program.
- First Aid and CPR certification required. (on-line courses not acceptable)
- Summer study could reduce some of the credit loads above.
- \*Effective Fall 2012, all incoming Schreyer Honors College freshmen at University Park will take ENGL/CAS 137H in the fall semester and ENGL/CAS 138T in the spring semester. These courses carry GWS designation and replace both ENGL 030 and CAS 100. Each course is 3 credits. At the discretion of the college, ENGL/CAS 138T satisfies the first-year seminar requirement.
- Academic Advising Notes: **The course series listed above is only one of many possible ways to move through this curriculum. Please be sure to also use the curriculum checksheets and degree audits, as well as consult with an adviser about appropriate scheduling sequences, clearances for field experiences and testing requirements. Advisers also can assist students in identifying coursework offered at Penn State in the SUMMER.**