

Capital Scholars Honors Program Advising Guide for Chemistry Majors

CAP students planning to major in Chemistry will complete the following requirements:

CAP requirements	28 Hrs.
Foreign Language	(0)4 to 16 Hrs.
General Education Requirements (Oral Comm, Speakers Series, Humanities)	7 Hrs.
Prerequisites recommended for major Biology, Physics, Math	20 Hrs.
CHE Major	46-47 Hrs.
Electives (assumes 4 hr foreign language)	<u>2 to 15 Hrs.</u>
Total	120 Hrs.

CAP Honors/Chemistry students planning to spend a semester abroad should normally plan to be abroad during the spring semester of the junior year. See your Chemistry advisor no later than the first semester of your second year to begin planning how to complete the requirements for your major in conjunction with your semester abroad.

First Year

Fall Semester	Hours	Spring Semester	Hours
CAP 111: Honors Composition	3	CAP 115: Interdisciplinary Writing	3
CAP 122: Who Am I?	3	CAP 121: How Do You Know?	3
CHE 141: Principles of Chemistry	4	CHE 241: Foundations of Inorganic Chemistry	4
Math 115: Calculus I	4	MAT 116: Calculus II	4
<i>Total</i>	<i>14</i>	<i>Total</i>	<i>14</i>

Second Year

Fall Semester	Hours	Spring Semester	Hours
CAP 225: What is Good?	3	CAP 226: What is Power?	3
CHE 367: Fundamental Organic Reactions	3	CAP 250: Global Issues	3
CHE 368: Experimental Organic Chemistry	1	CHE 369: Bio-organic Chemistry	4
ASP 201: University Physics I	4	ASP 202: University Physics II	4
BIO 141: Unity of Living Organisms	4	COM 112: Oral Comm	3
<i>Total</i>	<i>15</i>	<i>Total</i>	<i>17</i>

Certification of the B.S. degree by the American Chemical Society is optional. Students who choose to be certified must take CHE 422 (Inorganic Chemistry). Students selecting the biochemistry concentration must take (1) CHE 416 Biochemistry II or CHE 436 Medicinal Chemistry (3 hrs); (2) CHE 418 Techniques in Molecular Biology (1 hr); (3) Advanced biology elective [select from BIO 311 (Cell Biology), BIO 345, 346 (General Microbiology with laboratory), or BIO 381 (Genetics)] (4 hrs).