

Chemistry – Secondary Education B.S. Course Planning Grid

<p style="text-align: center;">First Year Fall Semester</p> <p style="text-align: center;">CHE 099 Chem Orientation (0 unit) CHE 201/ Hon 201 Gen Chem I MAT 127 Calc A PHY 201 Physics I</p>	<p style="text-align: center;">First Year Spring Semester</p> <p style="text-align: center;">CHE 202/ Hon 202 Gen Chem I MAT 128 Calc B PHY 202 Physics II <i>SED 099 Edu Orientation (0 unit)</i> <i>EFN 299 or SED 224</i></p>
<p style="text-align: center;">Sophomore Fall Semester</p> <p style="text-align: center;">CHE 316 Sophomore Seminar (0.25 unit) CHE 331 Orgo I CHE 310 Analytical Chem <i>EFN 299 or SED 224</i></p>	<p style="text-align: center;">Sophomore Spring Semester</p> <p style="text-align: center;">(CHE 316 if needed) CHE 332 Orgo II (CHE 310 if needed) [Research] <i>SPE 103</i></p>
<p style="text-align: center;">Junior Fall Semester</p> <p style="text-align: center;">CHE 317 Junior Seminar (0.25 unit) CHE 451/2 Inorganic Chem CHE 372 Thermo (CHE 310 if needed) (CHE 350 Biochem if Non-ACS) [CHE 4XX Instrumental or Advanced Topic] [Research]</p>	<p style="text-align: center;">Junior Spring Semester</p> <p style="text-align: center;">CHE 371 Quantum <i>Junior Experience:</i> <i>SED 399 (1.5 units)</i> <i>PHY 390 (1 unit)</i> <i>RAL 328 (0.5 unit)</i></p>
<p style="text-align: center;">Senior Fall Semester</p> <p style="text-align: center;"><i>Student Teaching:</i> <i>CHE 490 (2 units)</i> <i>SED 498 Capstone (1 unit)</i></p> <p>*Students are not allowed to take additional courses this semester.</p>	<p style="text-align: center;">Senior Spring Semester</p> <p style="text-align: center;">CHE 430 Biochem (or CHE 350 Biochem if offered, and if non-ACS) CHE 4XX [CHE 47X Advanced Topic if need 2nd] [Research]</p>
<p style="text-align: center;">Extra Semester</p> <p style="text-align: center;">[Research] or catch-up</p>	

- This plan assumes calculus readiness. Otherwise, additional coursework could be completed in summer or by extending to a five year schedule.

- Students are not allowed to take more than 3.0 units the fall semester of their senior year when they are doing student teaching. In order to make up this deficit in course units, students must plan to pick up an additional 1.0 course unit elsewhere.
- If student opts to do ACS with research they need to start in spring sophomore year or if they start spring of senior year they need an extra semester into the fifth year.
- Students can opt to take one advanced elective fall junior semester and one in spring senior semester, or two in spring senior semester.