Applicants seeking certification as secondary Chemistry teachers must have both breadth and depth of background in the content area demonstrated by a major in chemistry (or approximately 36 credits in chemistry course work or equivalent documented experience) and related science and math course work/knowledge (see below).

The applicant’s background should include the following topics:

- Biochemistry
- Organic chemistry
- Inorganic chemistry
- Physical chemistry
- Analytical chemistry
- Varies laboratory experience

*Supporting course work/knowledge in all four (4) of the following areas:

- Biology
- Earth/space/environmental science
- Physics
- Mathematics (pre-calculus or higher level)

Summary of content requirements to fulfill:

<table>
<thead>
<tr>
<th>Content Need</th>
<th>Project Type</th>
<th># Units</th>
<th>Comment</th>
<th>Completed?</th>
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Note: The above recommendations may be taken concurrently with the graduate program as determined by the adviser.

Overall rating of candidate’s content knowledge background

- Emergent
- Proficient
- Highly Proficient

Rating, based on background and intake interview, of candidate’s ability to create original investigations for instruction

- Emergent
- Proficient
- Highly Proficient