Candidates also complete a secondary education professional program. Endorsement courses require a cumulative GPA of 2.5 or better and a grade of C (2.0) or better for individual courses. Course substitutions must be clearly noted below.

### Chemistry and Biology (104 – 109 Credits)

- BIOL 204 - Introduction to Evolution, Ecology and Biodiversity (5)
- BIOL 205 - Introduction to Cellular and Molecular Biology (5)
- BIOL 206 - Introduction to Organismal Biology (5)
- BIOL 321 – Genetics (4)
- BIOL 323 - Cell and Molecular Biology (4)
- One course from:
  - BIOL 322 - Genetics Lab (4)
  - BIOL 324 - Methods in Molecular Biology (3)
- BIOL 325 – Ecology (4)
- BIOL 326 - Ecology Laboratory (3)
- BIOL 432 - Evolutionary Biology (4)
- CHEM 161 - General Chemistry I (5)
- CHEM 162 - General Chemistry II (5)
- CHEM 163 - General Chemistry III (4)
- CHEM 333 - Analytical Chemistry (5)
- CHEM 351 - Organic Chemistry (4)
- CHEM 352 - Organic Chemistry (4)
- CHEM 353 - Organic Chemistry (3)
- CHEM 354 - Organic Chemistry Laboratory I (3)
- CHEM 471 - Biochemistry I (4)
- CHEM 472 - Biochemistry II (4)
- CHEM 474 – Biochemistry Laboratory (3)

One course from:
- MATH 124 - Calculus and Analytic Geometry I (5)
- MATH 134 - Calculus I Honors (5)

Choose one of the following series:
- PHYS 114 - Principles of Physics I (5)
- PHYS 115 - Principles of Physics II (5)
- PHYS 116 - Principles of Physics III (5)

[or]
- PHYS 161 - Physics with Calculus I (5)
- PHYS 162 - Physics with Calculus II (5)
- PHYS 163 - Physics with Calculus III (5)

- SCED 370 - Science and Society (3) or equivalent
- SCED 481 - Fundamentals of Teaching Science (2)
- SCED 491 - Methods in Secondary Education for Science Teachers (5)

- NES: Chemistry Test Code 306
- NES: Biology Test Code 305

Outstanding Courses: