

REQUIRED JUNIOR LEVEL COURSES^{1,2}

6 CREDITS

- CHEM 101: University Chemistry I
- CHEM 102: University Chemistry II

GENERAL SENIOR LEVEL COURSES³

18 CREDITS

A minimum of six credits must be completed at the 300- or 400-level.

CHEMISTRY COURSES

- PHSC 200: Physical Science Field Skills⁴ [SPRING]
- CHEM 211: Analytical Chemistry I [FALL]
- CHEM 213: Analytical Chemistry II [WINTER]
- CHEM 241: Biophysical Chemistry [WINTER]
- CHEM 252: Introductory Forensic Science [FALL]
- CHEM 261: Organic Chemistry I [FALL/WINTER]
- CHEM 263: Organic Chemistry II [FALL/WINTER]
- CHEM 270: Environmental Chemistry [FALL]
- CHEM 291: Applied Spectroscopy [WINTER]
- CHEM 311: Advanced Chemical Analysis [FALL]
- CHEM 333: Organometallic Chemistry [NOT OFFERED 2014/15]
- CHEM 353: Forensic Chemistry [WINTER]
- CHEM 362: Advanced Organic Chemistry [EVEN FALL]
- CHEM 364: Medicinal Chemistry [ODD FALL]
- CHEM 370: Advanced Environmental Chemistry [WINTER]
- CHEM 495: Special Topics in Chemistry⁵ [NOT OFFERED 2014/15]
- CHEM 498: Independent Research⁵ [FALL/WINTER]

IMPORTANT PLANNING NOTES

1. **CHEM 101** and **CHEM 102** can be used toward a Bachelor of Science or Bachelor of Arts degree's core requirements.
2. Students are required to consult with the MacEwan University Academic Calendar to ensure they meet the prerequisites for all Chemistry courses they enrol in.
3. Arts students who choose a Chemistry minor must comply with Bachelor of Science minor residency requirements. Science minors must complete a minimum of nine senior level MacEwan University credits, including a minimum of three credits at the 300- or 400-level.
4. **PHSC 200** is a Physical Sciences course that covers material relevant to Chemistry, Earth and Planetary Sciences, and Physics. It can be used toward a student's Chemistry, Earth and Planetary Sciences, and Physics requirements, but while it may be applied to any of these requirements, students can only receive credit for the course one time.
 - **PHSC 200** is not a discipline-specific course, while the Chemistry minor is discipline-specific. If a student pairs a Chemistry minor with a non-Physical Science major, and takes **PHSC 200** outside of their minor, it will not count toward the student's maximum of six major/minor credits in their options.
5. Students may take **CHEM 495** and **CHEM 498** for credit a maximum of two times, as long as the course topic is different each time they take either course.