

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 6 credits must be completed at the 300- or 400-level.

CHEMISTRY COURSES

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| <input type="checkbox"/> PHSC 200: Physical Science Field Skills ⁴ | <input type="checkbox"/> CHEM 311: Advanced Chemical Analysis |
| <input type="checkbox"/> CHEM 211: Analytical Chemistry I | <input type="checkbox"/> CHEM 320: Introduction to Geochemistry |
| <input type="checkbox"/> CHEM 213: Analytical Chemistry II | <input type="checkbox"/> CHEM 322: Introduction to Biogeochemistry |
| <input type="checkbox"/> CHEM 232: Inorganic Chemistry | <input type="checkbox"/> CHEM 333: Organometallic Chemistry |
| <input type="checkbox"/> CHEM 241: Biophysical Chemistry | <input type="checkbox"/> CHEM 341: Structural Bioinformatics |
| <input type="checkbox"/> CHEM 252: Forensic Chemistry | <input type="checkbox"/> CHEM 353: Advanced Forensic Chemistry |
| <input type="checkbox"/> CHEM 261: Organic Chemistry I | <input type="checkbox"/> CHEM 362: Advanced Organic Chemistry |
| <input type="checkbox"/> CHEM 263: Organic Chemistry II | <input type="checkbox"/> CHEM 364: Medicinal Chemistry |
| <input type="checkbox"/> CHEM 270: Environmental Chemistry | <input type="checkbox"/> CHEM 370: Advanced Environmental Chemistry |
| <input type="checkbox"/> CHEM 291: Applied Spectroscopy | <input type="checkbox"/> CHEM 441: Molecular Modelling |
| | <input type="checkbox"/> CHEM 495: Special Topics in Chemistry ⁵ |
| | <input type="checkbox"/> CHEM 498: Independent Research ⁵ |

IMPORTANT PLANNING NOTES

- CHEM 101** and **CHEM 102** can be used toward a Bachelor of Science or Bachelor of Arts degree's core requirements.
- Students are required to consult with the MacEwan University Academic Calendar to ensure they meet the prerequisites for all Chemistry courses they enrol in.
- 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.
- 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, or 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.
- Students may take **CHEM 495** and **CHEM 498** for credit a maximum of two times each, as long as the course topic is different each time they take either course.

*This planning sheet should be used only as a **guide** for course planning and it should be used in conjunction with the Bachelor of Science or Bachelor of Arts degree planner. Remember: not all courses listed are offered each year and course offerings are subject to change. In the event of a discrepancy between the information presented on this sheet and that available on myStudentSystem, the information on myStudentSystem will be considered accurate.*