

REQUIRED JUNIOR LEVEL COURSES^{1,2}

6 CREDITS

- Choose two of:
- EASC 101: Introduction to Physical Earth Science
 - EASC 102: Physical Earth Science³
 - EASC 103: Historical Geology³

GENERAL SENIOR LEVEL COURSES⁴

18 CREDITS

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

EARTH AND PLANETARY SCIENCES COURSES

- PHSC 200: Physical Science Field Skills⁵
- EASC 206: Geology of the Solar System
- EASC 219: Mineralogy
- EASC 221: Introduction to GIS
- EASC 225: Introduction to Geomorphology
- EASC 226: Introduction to Soil Science
- EASC 230: Invertebrate Paleontology
- EASC 238: Geology of Natural Resources
- EASC 270: The Atmosphere
- EASC 271: The Oceans
- EASC 320: Introduction to Geochemistry
- EASC 321: Structure and Tectonics
- EASC 322: Introduction to Biogeochemistry
- EASC 324: Quaternary Environments
- EASC 330: Petrology
- EASC 334: Planetary Surface Imaging
- EASC 373: Anthropogenic Climate Change
- EASC 375: Paleoclimatology
- EASC 495: Special Topics in Earth and Planetary Science⁶
- EASC 498: Independent Research⁶

IMPORTANT PLANNING NOTES

1. The six credits students choose to fulfill their junior level prerequisite requirements can also fulfil core requirements in both the Bachelor of Science and Bachelor of Arts degrees.
2. Students are required to consult with the MacEwan University Academic Calendar to ensure they meet the prerequisites for all Earth and Planetary Sciences courses they enrol in.
3. Students who are interested in senior level weather and climate studies should take **EASC 102**. Students who wish to pursue geology or planetary studies should take **EASC 103**.
4. Arts students who choose an Earth and Planetary Sciences 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.
5. **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 Earth and Planetary Sciences minor is discipline-specific. If a student pairs an Earth and Planetary Sciences 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.
6. Students may take both **EASC 495** and **EASC 498** for credit a maximum of two times each, as long as the course topic is different each time they take the 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.*