

ES-3370A Course Outline

1. Course Information

Course Information

ES3370A Metallogeny 1

- 2 lecture hours, Tuesday and Thursday, 9:30 to 10:30, Room: 1065 B&GS
- 3 laboratory hours, Monday 2:30 to 5:30pm, Room 1065 B&GS

List of Prerequisites

ES 2200a/b and 2206a/b, or written permission from the instructor. Unless you have either the requisites for this course or written special permission from the instructor to enroll in it, you may be removed from this course and it will be deleted from your record. This decision may not be appealed. You will receive no adjustment to your fees in the event that you are dropped from a course for failing to have the necessary prerequisites.

2. Instructor Information

Instructors	Email	Office	Phone	Office Hours
Dr Nigel Blamey			x85246	By
(Course Coordinator)	nblamey2@uwo.ca	BGS-1000-D		appointment

Students must use their Western (@uwo.ca) email addresses when contacting their instructors.

3. Course Syllabus, Schedule, Delivery Mode

DESCRIPTION: An introductory course to the broad field of mineral deposit geology and the importance of mineral resources. Several ore deposit types are examined within the context of global theories of ore genesis. Various methods, including ore petrology, are related to specific ore types. Laboratory work focuses on reflected-light microscopy in the practical study of ore suites. Regular attendance and timely completion of assignments is expected.

Principal Objectives of this course:

Lecture Schedule (tentative; subject to change):

Lecture 1: Metallogenic Concepts

Lecture 2: Laterites

Lecture 3: Fe & Mn deposits

Lecture 4: U unconformity deposits

Lecture 5: Red-bed copper deposits

Lecture 6: Terms and definitions; drilling; alteration

Lecture 7: MVT deposits

Lecture 8: SEDEX deposits

Lecture 9: VMS deposits

Lecture 10: Epithermal deposits

Lecture 11: Carlin-type gold deposits

Lecture 12: Porphyry deposits

Lecture 13: Skarn deposits

Lecture 14: Bushveld Igneous Complex

Contingency plan

Although the intent is for this course to be delivered in person, should any university-declared emergency require some or all of the course to be delivered online, either synchronously or asynchronously, the course will adapt accordingly. The grading scheme will **not** change. Any assessments affected will be conducted online as determined by the course instructor.

4. Course Materials

For labs, students are expected to have a hand lens, small magnet and any routine tools that may be used for mineral identification.

There is no formal text. Notes will be posted on the OWL website. There are several useful mineral deposits textbooks in the library. These include:

Moon, C.J., Whateley, M.K.G. and Evans, A.M., 2006, Introduction to mineral exploration.

Robb, L.J., 2005, Introduction to ore-forming processes

Ridley, J., 2013, Ore Deposit Geology (ma0.000TQ612 792Al bes/

If students need assistance with the course OWL site, they can seek support on the OWL Brightspace Help page. Alternatively, they can contact the Western Technology Services Helpdesk. They can be contacted by phone at 519-661-3800 or ext. 83800.

Technical Requirements

A laptop or computer will be required to access the OWL site and access the virtual lectures should a covid or other lockdown force the university online.

5. Methods of Evaluation

The overall course grade will be calculated as listed below:

Mineral Test (x1) 10 % Laboratories (x4) 35 % Midterm Test 10 % Presentation 15 % Final Exam 30 %

The mid-term test will cover material from class up until the test and the date will be prior to the fall

6. Student Absences

If you are unable to meet a course requirement due to illness or other serious circumstances, please follow the procedures below.

Assessments worth less than 10% of the overall course grade:

For work worth less than 10% of the total course grade, the instructor is empowered to grant academic considerations without referring the student to their academic counsellors. An extension or makeup will be offered, however, this does not apply to late labs or assignments unless your academic councillor has notified the instructor.

Assessments worth 10% or more of the overall course grade:

For work totalling 10% or more of the final course grade, you must provide valid medical or supporting documentation to the Academic Counselling Office of your Faculty of Registration as soon as possible. For further information, please consult the U

https://www.uwo.ca/univsec/pdf/academic_policies/appeals/accommodation_medical.pdf.

The Student Medical Certificate is available at

https://www.uwo.ca/univsec/pdf/academic_policies/appeals/medicalform.pdf.

Absences from Final Examinations

If you miss the Final Exam, please contact the Academic Counselling office of your Faculty of Registration as soon as you are able to do so. They will assess your eligibility to write the Special Examination (the name given by the University to a makeup Final Exam).

e.g., more

than 2 exams in 23-hour period, more than 3 exams in a 47-hour period).

If a student fails to write a scheduled Special Examination, the date of the next Special Examination (if granted) normally will be the scheduled date for the final exam the next time this course is offered. The maximum course load for that term will be reduced by the credit of the course(s) for which the final examination has been deferred. See the Academic Calendar for details (under Special Examinations).

6. Accommodation and Accessibility

Religious Accommodation

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Please visit the Diversity Calendars posted on our religious holidays:

https://www.edi.uwo.ca.

Accommodation Policies

Students with disabilities are encouraged to contact Accessible Education, which provides recommendations for accommodation based on medical documentation or psychological and cognitive testing. The policy on Academic Accommodation for Students with Disabilities can be found at:

https://www.uwo.ca/univsec/pdf/academic_policies/appeals/Academic Accommodation_disabilities.pdf.

Academic Policies

The website for Registrar Services is https://www.registrar.uwo.ca/.

In accordance with policy,

https://www.uwo.ca/univsec/pdf/policies_procedures/section1/mapp113.pdf,

the centrally administered e-mail account provided to students will sofficial university e-mail address. It is the responsibility of the account holder to ensure that e-mail received from the University at their official university address is attended to in a timely manner.

Scholastic offences are taken seriously and students are directed to read the appropriate policy, specifically, the definition of what constitutes a Scholastic Offence, at the following Web site:

https://www.uwo.ca/univsec/pdf/academic_policies/appeals/scholastic_discipline_undergrad.pdf.

7. Academic Policies

The website for Registrarial Services is http://www.registrar.uwo.ca.

In accordance with policy,

https://www.uwo.ca/univsec/pdf/policies_procedures/section1/mapp113.pdf,

the centrally administered e-mail account provided to students will sofficial university e-mail address. It is the responsibility of the account holder to ensure that e-mail received from the University at their official university address is attended to in a timely manner.

Electronic devices will not be required for any of the tests.

Scholastic offences are taken seriously and students are directed to read the appropriate policy, specifically, the definition of what constitutes a Scholastic Offence, at the following Web site:

http://www.uwo.ca/univsec/pdf/academic_policies/appeals/scholastic_discipline_undergrad.pdf.

If the university pivots to an online exam format due to covid, then Turnitin will bg0 1.46 136.1 Tm0 g0 G(.) TJET