



MASTER OF ECONOMIC GEOLOGY SHORT COURSE

Advanced Field Skills in Economic Geology

13–26 February 2022

CODES
CENTRE FOR ORE DEPOSIT AND EARTH SCIENCES

UNIVERSITY of
TASMANIA 

CODES, Centre for Ore Deposit and Earth Sciences, University of Tasmania

CRICOS Provider Code 00586B

Advanced Field Skills in Economic Geology
is offered as a unit in the national Minerals Geoscience Masters program.

MASTER OF ECONOMIC GEOLOGY

THE MOST COMPREHENSIVE MASTER DEGREE IN MINERAL EXPLORATION AND MINING GEOLOGY ANYWHERE IN THE WORLD

This course work-based Masters program is aimed at geoscientists who want to gain a thorough up-date on advances across the spectrum of economic geology applied to mineral exploration. The Master of Economic Geology at UTAS is part of the national Minerals Geoscience Masters program, jointly offered by the University of Tasmania and the University of Western Australia, in conjunction with Curtin Business School at Curtin University.

Course structure

The Masters course can be completed in either of two ways:

Option 1: requires the completion of six coursework units and a minor research thesis. Four of the units must be completed at CODES, while the remainder may be completed at other participating universities. Duration: 18–24 months full-time; up to 30 months part-time (flexible in recognition of industry participants).

Option 2: requires the completion of eight units of coursework, at least four of which must be undertaken at CODES. Duration: up to 30 months part-time (flexible in recognition of industry participants).

Participating universities offer up to six units annually or in rotation over a two-year period. Most units are of two weeks duration.

Fees

UTAS tuition fees are approximately \$2,005 per unit (8 in total) for domestic students (2022 rate) and \$8,636 (AUD) per unit for full-fee paying overseas students (FFPOS) (2022 rate). Field-based courses have additional costs. Costs will vary for units taught by other MGM partner institutions.

Entry Requirements

A BSc (Hons), or a BSc (majoring in geoscience) with at least two years industry experience. International students should also refer to <http://www.international.utas.edu.au>. English language proficiency requirements also apply.

Units offered by CODES

- KEA718 Advanced Field Skills in Economic Geology: 13–26 February 2022
- KEA716 Fundamentals of Economic Geology: 4–9 April & 2–6 May 2022
- KEA712 Ore Deposit Models and Exploration Strategies: June–July 2022
- KEA710 Exploration in Brownfield Terrains: October 2022
- KEA713 Geodata Analytics: August–October 2022 (19–24 September- intensive Part 2)
- KEA708 Volcanology and Mineralisation in Volcanic Terrains (New Zealand, western Tasmania): November 2022
- KEA718 Advanced Field Skills in Economic Geology: February 2023
- KEA707 Ores in Magmatic Arcs: March 2023
- KEA709 Ore Deposit Geochemistry, Hydrology and Geochronology: June–July 2023
- KEA713 Geodata Analytics: August–October 2023
- KEA711 Geometallurgy: October 2023

For further information contact:

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Email: Robert.Scott@utas.edu.au
CODES.Info@utas.edu.au
Website: <http://www.utas.edu.au/codes/masters-short-courses>

COURSE PRESENTERS

Robert Scott is the Coordinator of the Master of Economic Geology program at CODES, and lecturer in Structural Geology in the Discipline of Earth Sciences at the University of Tasmania. He has extensive field mapping skills, and has been training geoscientists in field mapping for three decades.



Lejun Zhang is a Senior Research in the TMVC Research Hub, UTAS specialising in the application of alteration mineral chemistry for enhancing exploration in green rock and lithocap environments, and vectoring using SWIR and whole-rock geochemical data.



Michael Baker is a Senior Research Fellow in Economic Geology in the TMVC Research Hub, UTAS. He has extensive research expertise in mineral chemistry and its applications to exploration for porphyry and epithermal deposits.



COURSE INFORMATION AND PRELIMINARY PROGRAM

This field-based short course will be held in Tasmania over two weeks in February 2022. The course will teach fundamental and advanced mapping and field skills suitable for use in the minerals industry, including field-based rock and mineral identification, fact and form surface mapping, Anaconda-style mapping, structural measurement and graphic logging techniques for drill core, and the use of spectral, geochemical and remote sensing data sets in making and interpreting geological maps. This course has been identified as critical by the Minerals industry to teach skills lacking for many graduates.

Part One:

For the first part of the course, detailed structural and volcanic facies mapping will be conducted in polydeformed Cambrian submarine volcanic rocks near the Henty gold mine. The mapping area is ~15 km south, along strike from the world-class Rosebery Zn-Cu-Pb-Au-Ag volcanic-hosted massive sulfide deposit in the Cambrian Mount Read Volcanic belt, western Tasmania.

Techniques covered include graphic and structural core logging, volcanic facies mapping and interpretation and structural mapping and analysis of simply deformed regions.

Part Two:

The second week of the short course involves a two-day Anaconda mapping and core logging exercise on the Mount Lyell mining lease (Western Tharsis Cu-Au deposit); a three-day advanced structural mapping exercise in multiply deformed turbidites of the Mathinna Supergroup in NE Tasmania, and a one-day Anaconda mapping exercise on the Freycinet Peninsula examining features in Devonian granites formed at the magmatic-hydrothermal transition. In a post-fieldtrip assignment, students will complete an analysis of structural data collected during the second week of the fieldtrip.

Registration fees cover the cost of field trip transport and accommodation. Participants are responsible for air travel to/from Hobart and accommodation in Hobart.

All participants must carry their own PPE (steel-capped boots, long-sleeved shirts, long sturdy trousers, 'wet boots' (for wading), geological hammer, hand lens, scratcher, field notebook, pens/pencils (incl coloured), ruler, protractor, eraser, compass/clinometer. You will also need sun protection, and wet weather gear.

**** All participants are required to be fully vaccinated against COVID-19, and will need to provide proof of vaccination. All participants are required to comply with all state government COVID-19 regulations, including testing, quarantining, mask wearing, self-isolating, etc.***



REGISTRATION FORM

Advanced Field Skills in Economic Geology

13–26 February 2022

Please complete and return to:

CODES

University of Tasmania, Private Bag 79

Hobart, Tasmania, Australia 7001

Ph: +61 3 6226 2472

Email: CODES.Info@utas.edu.au

PERSONAL DETAILS

Title—Please highlight (Prof / Dr / Mr / Mrs / Ms / Miss)

First Name: Last Name: (surname / family name):

Preferred Name:

Position:

Company / University:

Address:

City: State: Postcode: Country:

Email: Phone (mobile / cell):

Dietary requirements / allergies / other health issues:

Next of kin (name, relationship and email/phone contact):

REGISTRATION FEES (estimated— TBC mid-January)

All fees are in Australian dollars (AUD) and include GST. Fees do not include flights to/from Hobart, or accommodation in Hobart.

Please indicate

Minerals Geoscience Masters Program (MGM) Students:

(Excludes UTAS tuition fee)

- Full course (\$1,600)- University of Tasmania enrolled
- Full course (\$1,600)- University of Western Australia enrolled

Industry Participants:

- Full course (\$3,000)*
- Part one– Western Tasmania (\$1,700)*
- Part two– Tasmania (\$1,700)*

Other Students:

- Full course (\$1,600)*
- Part one– Western Tasmania (\$1,000)*
- Part two– Tasmania (\$1,000)*

* Participant numbers for this course are capped, with preference to enrolled MGM students. Other interested parties will be advised whether they have secured a place by February 1st.

PAYMENT

Registrations are due by the 31st of January, 2022. Full payments are due by the 4th of February, 2022.

Preferred payment method. Please indicate

- Credit Card
Upon receipt of your registration form and confirmation of your place, you will be provided with a payment reference number and web address for online payments. Please note: Credit card details cannot be accepted by email.
- Cheque or Bank Draft
Please make cheques and bank drafts payable to “The University of Tasmania”. Bank drafts must be made out in Australian currency (AUD).
- Invoice
Name, address and email address for person responsible for payment of invoice:

Please retain a copy of this form for your records and email or post original to CODES.Info@utas.edu.au