GEOL 241 is an 8-day field course that takes place in northwest Nelson, South Island, New Zealand. Students enrol for the course and sign up for one of 3 trips (see dates below).

GENERAL INFORMATION: The course typically involves a 1 hr pre-trip informational meeting, 6 days of outdoor fieldwork, and evening work as necessary to complete the work assigned for assessment. Travel to and from the field station takes up the remaining two days. No formal lectures are allocated to this course during the teaching term. This course is entirely internally assessed, so there is no formal registry exam. All assigned work must be turned in before we return to Wellington.

LEARNING OBJECTIVES: The course will teach you basic field mapping techniques (use of compass, making field observations, recording data, etc.), and will give you training and experience in presenting your data through the construction of geological maps, stratigraphic columns and geological cross-sections. You will gain practice in interpreting the geological history of an area from your own observations. We will also try to show you as many of the interesting geological features of the Golden Bay region as time and weather permit.

We will be staying in the Geology field station at Onekaka in Golden Bay. The station has 22 bunk beds total with mattresses (no pillows) in 3 bunkrooms, a kitchen with cooking equipment and zip water heater (the tap water is ok to drink), a workroom, 2 showers (electric hot water), 2 flush toilets, laundry tub and drying room. Students will be rostered for cooking and cleaning duties – your mapping group can expect to prepare 2 or 3 meals.

TRIP DATES: Students do one of: week 1, 2, or 3.
Ferry times could change so check your email, or otherwise keep in touch.

WEEK 1: Saturday 23 Feb-Saturday 02 Mar, 2013, inclusive. Leader: Julie Vry
WEEK 2: Saturday 30 Mar-Saturday, 06 April, inclusive. Leader: Rob McKay
WEEK 3: Saturday 20 April-Saturday 27 April, inclusive. Leader: Monica Handler

THE FERRY:
streams 1 & 2:
Departs 8:25 am, Interislander Ferry Terminal, Wellington.
Be there no later than 7:35 am (45 minutes early) to check in.
Return will be on the 1:10 pm sailing from Picton, arriving Wellington at 4:20 pm.

stream 3:
Departs 8:15 am, Interislander Ferry Terminal, Wellington.
Be there no later than 7:25 am (45 minutes early) to check in.
Return will be on the 1:05 pm sailing from Picton, arriving Wellington at 4:30 pm.

WITHDRAWAL DATE: in writing (use change of course form) by 15 March, 2013
see: http://www.victoria.ac.nz/home/admsenrol/payments/withdrawlsrefund.aspx
THE HEALTH & SAFETY/ OFF-CAMPUS ACTIVITIES PERSONAL DISCLOSURE FORM:
You MUST turn this in. Please turn it in early! Copies will be emailed to each of you. I have the personal disclosure forms from ESCI 112, 2012. If nothing has changed, you still must email Julie.Vry@vuw.ac.nz to say so, or turn in a new form. Please also let us know of any special dietary requirements.

COMMUNICATION OF ADDITIONAL INFORMATION:
If there are any last-minute problems (e.g. ferry delays due to bad weather) we will use the contact information from your forms to attempt to contact you.

Cost: The School of Geography, Environment and Earth Sciences heavily subsidises the trip. The basics of food, accommodation and travel are covered, but students are responsible for their own treats and for any food purchased on the Saturdays while travelling to and from the field station.

STAFF contact information: SGEES school office 463 5337
Julie.Vry@vuw.ac.nz Room CO 410, 463 6432;
Robert.McKay@vuw.ac.nz Room CO 511, 463 6836
Monica.Handler@vuw.ac.nz Room CO 406, 463 5391

You will work in the field on mapping exercises in groups of 2 to 4. Geological compasses and level bubbles will be provided, to be shared within groups. Although you will be mapping in the field as part of a group, the material you hand in must be your own individual work. Work will be completed in the evenings.

ASSESSMENT:
Entirely internally assessed.
25% field notebook.
75% geological maps, stratigraphic columns and other exercises
All work will be due in, at the field station, before we return to Wellington.

All the fieldwork is weather and tide-dependent. Only if the trip is severely affected by bad weather might we require that a short report or essay on some aspect of fieldwork or the geology of the region be handed in after you return.

ITEMS THAT WILL BE MARKED: All of the items that you must turn in for assessment will be listed, in order, on the blackboard (chalkboard) in the field station, as the week progresses.

Your field notebook (25%) is important; you need to collect your own data, and you need practice to develop the skill at taking useful geological field notes.

Your assessed work (totaling 75%) can be expected include (but will not necessarily be limited to) the following things. Together these provide you with basic practical training and experience in geological field mapping of sedimentary rocks, and a good chance to demonstrate the mapping skills you learn in the course.

WEIGHTING:
Marks for exercises will be weighted based on the amount of time spent at the task(s), and on the final total number of exercises assigned, including additional items of assessment (see below). For illustrative purposes only, an indicative approximate weighting is given for the following 4 items alone:

- Puponga point/ Abel Head: 12%
  - geological map based on pace and compass traverse (6%)
  - geological cross section (6%)

- Cape Farewell area: 33%
geological map (could be in black & white; might include surficial geology) (13%)
stratigraphic column (10%)
geological cross section (s) (5%, 5%)

Rangihaeata Head: 24%
geological map (6%)
stratigraphic column (8%)
geological cross section (10%)

Gibson Creek: 6% (weighting depends in part on how inaccessible a key outcrop is).
geological map (4%)
geological cross section (2%)

You will not get full marks if: you forget basic things like: your name; the scale (bar & ratio); the figure title; an explanation (=key, =legend) presenting every symbol and pattern used (remember to put oldest rocks at the bottom & youngest rocks at the top); & a north arrow (true north and magnetic declination).

REQUIREMENTS FOR PASSING THE COURSE:
At least 50% overall; including points from both the notebook and exercises.

ADDITIONAL ITEMS OF ASSESSMENT (see indicative list, below):
Additional items of assessment will be assigned, and will be included in the marking. These will serve to broaden your base of experience and training in geology. The topics and exercises can be expected to vary from week to week, depending on weather and the interests of the teaching staff.

The following list (not exclusive) gives examples of places that may be visited, and topics that have been explored in the form of interpretive exercises in previous years.

Takaka Valley: folding
Tata Beach and the margin of the Separation Point Batholith
igneous rocks and their interpretation
Roadcut near Parapara Inlet
complexly-deformed metamorphic rocks, effects of hydrothermal alteration
Pariwhakaoho River and Copperstain Creek
metamorphic rocks, gossan, traces (almost gone) of copper mineralization
Rameka Creek: igneous & metamorphic rocks
Cobb Valley: glacial features, various rock types including serpentinites, trilobite rock
Interpreting the geological history of this region over the last 100 million years.

Other features of interest that you may see on the trip:
Pohara Cement Works: fossils
Cape Farewell area: coal mines, fossils
Side road near Parapara Inlet: Onekaka iron quarry
Pupu Springs: the springs

WHAT TO BRING:
We will provide: compasses, level bubbles, high visibility vests, field station, van transport, outline maps and other basemaps for fieldwork, additional blank paper, and meals.

You need to bring your own gear, which should include: pocket money (you are responsible for your meals until we get to the field station, and for any non-meal snacks, etc. during the course), sleeping bag or bedding, ± pillow, clothing for a variety of conditions, rain gear, boots or strong shoes (we will do seacoast sections, so plan on getting wet feet on occasion), indoor shoes, personal stuff (shampoo, toothbrush, toothpaste, towel, etc.), drink bottle, eating utensils (plate, bowl, knife, fork, spoon, mug), tea towel, hand lens, pens, pencils (including colour), ruler, protractor, field
notebook, day pack and field first aid kit, sunscreen, sunglasses and/or hat, insect repellent if you will want it, and any prescribed medications. The native bush nettles grow rank at Gibson Creek, so plan your clothing choices for that day accordingly. If you get carsick or seasick, be aware that ferry crossings are not always smooth, and that Takaka Hill is a long and very winding stretch of road (you might want to bring seasickness tablets or think about where to sit in the van). **Optional extras:** geological hammer (and eye protection; no hammering without safety glasses), sample bags (paper works better than plastic; wrapping in tissues or paper towels helps protect delicate samples like fossils), camera, geological maps, swimming gear, builder’s tape measure, cold chisel.

A suitable field notebook is important and Rite-in-Rain notebooks are available for $7.00 through the School Office (3rd Floor Cotton Bldg.). Hand lenses cost $15. Geological hammers and compasses (both are required for 3rd year field courses) can also be ordered for $92.00 and $120.00 respectively.

**TEXTBOOKS:**
A small information booklet will be provided to you on the trip. In the back of the booklet are some guidelines for describing sedimentary rocks. There is no required textbook for the course, but an assortment of books (on birds, plants, geological field mapping methods, local history including coal mining, and an (out of print) copy of Jocelyn Thornton’s *Field Guide to New Zealand Geology*), is normally made available on the mantle above the fireplace, for general use.

**SPECIAL FOOD REQUIREMENTS:** Please advise us in advance about any special dietary requirements that you might have.

**EXPECTED WORKLOAD:** Ordinarily, VUW students should spend about 10 hrs per course point on coursework, study and review. This entire course is only 8 days long, and 2 of the days are travel days. Students will be out in the field each day, and will work in the evenings. The days will be long, but the workload is manageable so long as you budget your time.

**CLASS REPRESENTATIVE:** A class representative for each of the 3 streams of the course will be elected upon arrival at the field station. Upon our return, that person’s name and contact details will be available to VUWSA, the Course Coordinator, and the class. The class representative provides a communication channel to liaise with the Course Coordinator (or the Academic Lead, during the field course itself) on behalf of students.

In addition, the university requires us to give you the following information.

**GENERAL UNIVERSITY POLICIES AND STATUTES**

Students should familiarise themselves with the University’s policies and statutes, particularly the Assessment Statute, the Personal Courses of Study Statute, the Statute on Student Conduct and any statutes relating to the particular qualifications being studied; see the *Victoria University Calendar* or the University’s policy website, [http://www.victoria.ac.nz/home/about/policy](http://www.victoria.ac.nz/home/about/policy)

**Student and staff conduct**
The Statute on Student Conduct together with the Policy on Staff Conduct ensure that members of the University community are able to work, learn, study and participate in the academic and social aspects of the University’s life in an atmosphere of safety and respect. The Statute on Student Conduct contains information on what conduct is prohibited and what steps are to be taken if there
is a complaint. For information about complaint procedures under the Statute on Student Conduct, contact the Facilitator and Disputes Advisor or refer to the statute on the Victoria policy website at:

http://www.victoria.ac.nz/home/about/policy

The Policy on Staff Conduct can be found at:

http://www.victoria.ac.nz/home/about/policy

**Academic grievances**

If you have any academic problems with your course you should talk to the tutor or lecturer concerned; class representatives may be able to help you in this. If you are not satisfied with the result of that meeting, see the Head of School or the relevant Associate Dean; The VUWSA Student Advocate is available to assist in this process. If, after trying the above channels, you are still unsatisfied, formal grievance procedures can be invoked. These are set out in the Academic Grievance Policy which is published on the Victoria website at:

http://www.victoria.ac.nz/home/about/policy

There is also a leaflet explaining the grievance process available from the AVC (Academic) website at:

http://www.victoria.ac.nz/home/about_victoria/avcacademic/Publications.aspx#grievances

**Students with Impairments**

*Refer to the Meeting the Needs of Students with Impairments Policy, available on the University’s policy website* http://www.victoria.ac.nz/home/about/policy

The University has a policy of reasonable accommodation of the needs of students with impairments. The policy aims to give students with disabilities the same opportunity as other students to demonstrate their abilities. If you have a disability, impairment or chronic medical condition (temporary, permanent or recurring) that may impact on your ability to participate, learn and/or achieve in lectures and tutorials or in meeting the course requirements, please contact the course coordinator as early in the course as possible. Alternatively, you may wish to approach a Student Adviser from Disability Support Services (DSS) to discuss your individual needs and the available options and support on a confidential basis. DSS are located on Level 1, Robert Stout Building:

- telephone: 463-6070
- email: disability@vuw.ac.nz

The name of your School’s Disability Liaison Person is in the relevant prospectus or can be obtained from the School Office or DSS.

**Student Support**

Staff at Victoria want students to have positive learning experiences at the University. There are a number of support services available to help you directly if your academic progress is causing concern or if there are elements in your life that are affecting your ability to study. These include:

- Your course coordinator or programme director;
- Staff in your Faculty Student Administration Office Student Dedicated learning support through Student Learning Support Service; Kaiwawao Māori ;Maanaki Pihiphipinga; Disability Support Services and Victoria International;
• Wider holistic support through the Health Service; Counselling Service; Financial Support and Advice; Accommodation Service and Career Development and Employment. Find out more at www.victoria.ac.nz/st_services/ or email student-services@vuw.ac.nz;
• VUWSA employs a Student Advocate who deals with academic problems and provides support, advice and advocacy services, as well as training and supporting class representatives and faculty delegates. The Education Office is located on the ground floor, Student Union Building. Email education@vuwsa.org.nz or tel. 463-6716 or 463-6984.

**Academic Integrity and Plagiarism**

Academic integrity means that university staff and students, in their teaching and learning are expected to treat others honestly, fairly and with respect at all times. It is not acceptable to mistreat academic, intellectual or creative work that has been done by other people by representing it as your own original work.

Academic integrity is important because it is the core value on which the University’s learning, teaching and research activities are based. Victoria University’s reputation for academic integrity adds value to your qualification.

The University defines plagiarism as presenting someone else’s work as if it were your own, whether you mean to or not. ‘Someone else’s work’ means anything that is not your own idea. Even if it is presented in your own style, you must acknowledge your sources fully and appropriately. This includes:

• Material from books, journals or any other printed source
• The work of other students or staff
• Information from the internet
• Software programs and other electronic material
• Designs and ideas
• The organisation or structuring of any such material

Find out more about plagiarism, how to avoid it and penalties, on the University’s website: www.victoria.ac.nz/home/studying/plagiarism.html

• **Use of Turnitin**

Student work provided for assessment in this course may be checked for academic integrity by the electronic search engine http://www.turnitin.com. Turnitin is an online plagiarism prevention tool which compares submitted work with a very large database of existing material. At the discretion of the Head of School, handwritten work may be copy-typed by the School and subject to checking by Turnitin. Turnitin will retain a copy of submitted material on behalf of the University for detection of future plagiarism, but access to the full text of submissions is not made available to any other party.

**Communication of additional information**

Find key dates, explanations of grades and other useful information at www.victoria.ac.nz/home/study. Find out about academic progress and restricted enrolment at www.victoria.ac.nz/home/study/academic-progress. The University’s statutes and policies are available at www.victoria.ac.nz/home/about/policy, except qualification statutes, which are available via the Calendar webpage at www.victoria.ac.nz/home/study/calendar (See Section C). Further information about the University’s academic processes can be found on the website of the Assistant Vice-Chancellor (Academic) at www.victoria.ac.nz/home/about_victoria/avcacademic/default.aspx