



**Te Kawa a Māui**  
Faculty of Humanities and Social Sciences

# MAOR 124

## **Te Pūtaiao Māori Māori Science**

Course Reference Number (CRN): 3058  
Course Value: 20 points  
Trimester 2 2014



Tēnā koutou e ngā tauira e whai ake nei i te mātauranga a ō tātou tūpuna. Ko tēnei te mihi nui ki a rātou mā, ki a koutou katoa hoki. Koinei ngā kōrero whakamārama mō tēnei karaihe, te pūtaiao o te Māori, i te wāhanga tuatahi o te tau 2014.

### *E tipu, e rea mō nga rā o tōu ao*

## **1 IMPORTANT DATES**

<b>Trimester dates</b>	14 July to 16 November
<b>Teaching dates</b>	14 July to 17 October
<b>Mid-trimester break</b>	25 August to 7 September
<b>Study week</b>	20-24 October
<b>Examination/assessment period</b>	24 October to 15 November

Students who enrol in courses with examinations must be able to attend an examination at the University at any time during the scheduled examination period.

<b>Withdrawal dates</b>	Refer to <a href="http://www.victoria.ac.nz/students/study/withdrawals-refunds">www.victoria.ac.nz/students/study/withdrawals-refunds</a> .
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<b>Aegrotats</b>	If you cannot complete an assignment or sit a test or examination, refer to <a href="http://www.victoria.ac.nz/students/study/exams/aegrotats">www.victoria.ac.nz/students/study/exams/aegrotats</a> .
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## **2 CLASS TIMES AND LOCATIONS**

### **2.1 Lectures**

Tuesday	3:10-4:00pm	HMLT001 (Hugh Mackenzie Building)
Wednesday	3:10-4:00pm	HMLT001 (Hugh Mackenzie Building)
Friday	3:10-4:00pm	HMLT001 (Hugh Mackenzie Building)

### **2.2 Tutorials**

Tuesday	4:10-5:00pm	Venue to be confirmed
Wednesday	4:10-5:00pm	Venue to be confirmed
Friday	2:10-3:00pm	Venue to be confirmed

Field trips and workshops are held fortnightly over 10 weeks. These sessions commence in the third week of the course. An attendance roll will be taken during each session. More information on how to register for a fortnightly workshop session and their venues is given below.

### 3 NAMES AND CONTACT DETAILS

<b>Course Coordinator</b>	Ocean Mercier Room 207, 50 Kelburn Parade Telephone 463 7457 Email ocean.mercier@vuw.ac.nz
<b>Office Hours</b>	By appointment
<b>Course Administrator</b>	Jeremy Porima Room 102, 50 Kelburn Parade Telephone 463 5314 Email jeremy.porima@vuw.ac.nz
<b>Office Hours</b>	Monday-Friday, 9:00am-4:30pm

### 4 COMMUNICATION OF ADDITIONAL INFORMATION

MAOR 124 has a Blackboard site. You should check this site regularly, i.e. at least twice a week.

All notices, course information (including information relating to assessments), and grades will be made available on Blackboard.

### 5 PRESCRIPTION AND COURSE LEARNING OBJECTIVES

#### 5.1 Prescription

This course examines tikanga and mātauranga Māori (Māori knowledge and science) in both traditional and contemporary contexts. It examines the differences and similarities between Western and Māori ways of knowing. Fortnightly two-hour laboratories/field trips/tutorials allow students to engage with Māori science in practical ways.

#### 5.2 Course Learning Objectives (CLOs)

Students who pass this course will be able to:

- 1 recall and discuss examples of scientific methodology used by Māori in their traditional knowledge
- 2 differentiate between Māori and 'Western' philosophies, values and practices related to science
- 3 understand how different knowledge systems and worldviews influence the management of the natural world, and be able to evaluate the influence of the Western scientific worldview on policies, procedures and legislation and their impact on Māori resource management
- 4 recall and describe recent case studies of Māori people engaged in and with science, and from this be able to critically examine which strategies best support Māori leadership in science
- 5 understand and describe Māori views and key Māori concepts on environmental management, and be able to apply these concepts to the identifying of Māori positions on contentious issues in science, such as xenotransplantation

- 6 learn skills in surveying and digital mapping with Google Earth in order to understand how a 'Western' technology can interface with mātauranga Māori in the practical context of mapping sites of significance to Māori, and
- 7 write critically to address a range of Māori issues arising from discourse at the 'interface' of science and mātauranga Māori.

## 6 COURSE CONTENT

This programme provides an outline of course content. The programme is flexible and where necessary will be tailored to the needs and requests of the students in the course.

Week	Theme	Field Trip / Workshop	Assessment
1	'Māori Have Always Been Scientists'		
2	Revolutions in Māori Knowledge		
3	Tātai Arorangi / Astronomy	Carter Observatory field trip, 29 July, 7:30pm	
4	Mahi Whakatare / Navigation		Field trip Blackboard test, 5 Aug, 5%
5	Te Wao Nui a Tāne / Forest	Flora at Victoria field trip, during workshop hours	Field trip worksheet, 5%
6	Rongoā Maori / Medicine		Test, 22 Aug, 10%
<b>MID-TRIMESTER BREAK: 25 August – 7 September</b>			
7	Haumietiketike / Horticulture	Presentations on rākau for rongoā Māori	Workshop presentation, 5%
8	Hangarau / Technology		
9	Kaitiakitanga and Rangatiratanga	Google Earth workshop	Workshop worksheet, 5%
10	Ngā Ahi e Ngiha Mai Nei / Contentious Issues		Cultural atlas project, 3 Oct, 10%
11	Wānanga / Science Education	Essay workshop	
12	The Interface		Essay, 17 Oct, 20%

## 7 TEACHING FORMAT

### 7.1 Lectures

Students will attend three 50-minute lectures per week.

Lectures will usually involve a presentation from the Course Coordinator or guest lecturers, with time for questions.

### 7.2 Field Trips / Workshops

Students will attend two field trips and three workshops during the trimester. Activities to supplement classroom learning will be planned for each

workshop / field trip. Students will work on assignments prior and during field trips 1 and 2, and workshops 1 and 2. Each assignment is worth 5% (for more detail see below).

Field trip 2 and workshops 1-3 will be offered at set times during the week. Students will sign up during class or on Blackboard in Week 4 for their preferred time for the field trip and workshops. There should be no more than 15 students per session. The available times (tbc) are Tuesday 4:10-5:00pm, Wednesday 4:10-5:00pm and Friday 2:10-3:00pm.

### 7.2.1 Field Trips

- 1 **Astronomy/Tātai Arorangi:** During Week 3, 7:30-9:30pm on Tuesday 29 July, the whole class will visit the Carter Observatory, Botanical Gardens, signposted from the top of the Cable Car. The cost of this field trip is \$10. Please pay your fee to Jeremy Porima (see section 3 for Jeremy's office hours and location). You will explore the exhibits in order to answer worksheet questions (which will contribute to your 5% assessment), then view a Planetarium show, beginning at 8:00pm sharp, then, weather allowing, we will observe the skies through the telescope. You will then have one week to complete the test that assesses what you have learnt (5%). This will be on Blackboard and is due by 4:30pm on 5 August.
- 2 **Native Plants/Rākau o Aotearoa:** During Week 5 we will conduct a 50-minute on-campus field trip designed to help you to identify native plants significant to Māori. The meeting place for the on-campus field trip is Te Ahumairangi (the downstairs Seminar Room at 48 Kelburn Parade). You will fill out and submit a worksheet during this session (5%).

### 7.2.2 Workshops

- 1 **Presentations:** During Week 7, we will conduct a 50-minute session in which students will give pre-prepared presentations on the rākau/native plant they were assigned in Week 5. Each presentation will be no more than 3 minutes in length, and will focus on the medicinal uses of the rākau (5%).
- 2 **Google Earth:** During Week 9, a 50-minute Google Earth workshop will take place in KK 218 (tbc). This will give students an opportunity to learn how to use Google Earth, in order to complete their cultural mapping assignment. An accompanying worksheet will be submitted for assessment (5%) once the workshop is completed.
- 3 **Essay:** A 50-minute tutorial on essay writing will be given in Week 11. No assessment is associated with this workshop.

## 8 MANDATORY COURSE REQUIREMENTS

In addition to achieving an overall pass mark of 50%, students must:

- attend at least 30 of 36 lectures in total
- complete ALL internal course work, and
- attempt the final examination.

## 9 WORKLOAD

The standard Faculty workload for a 20 point course applies, i.e. 200 hours in total, spread over the teaching weeks and the mid-trimester break, i.e. about 14 hours per week (inclusive of lectures and workshops/field trips).

Each week, the remaining 9-11 hours should be spent on:

- reviewing lecture notes (1-2 hours)
- assigned readings (3-4 hours), and
- work on assignments (3-5 hours).

The division of time between reading for assignments and writing assignments will vary from week to week.

## 10 ASSESSMENT

### 10.1 Assessment Requirements

Information about all course assessments are contained in this course outline. Assessments will be explained in lectures and tutorials. If you are unsure about any assessment requirement, please contact the Course Coordinator. Marking guides are available on Blackboard.

MAOR 124 is 60% internally assessed and 40% by final examination.

Assessment items	%	CLOs	Due date
1 Field trip / workshop assignments (x4)	20%	1, 2, 6	1 Aug – 14 Sep (Weeks 3-8)
2 In-class test	10%	1, 2, 5	22 Aug (Week 6)
3 Cultural atlas exercise	10%	6	3 Oct (Week 10)
4 Essay	20%	3, 4, 5	17 Oct (Week 12)
5 Final examination	40%	1, 2, 3, 4, 5, 7	
<b>Total assessment</b>	<b>100%</b>		

### 10.2 Field Trip / Workshop Assignments

**4 @ 5% each = 20%**

An assignment will be given out before or during the field trips and workshop, and is usually due on completion of the field trip / workshop. You are required to complete 3 of the 4 total assignments, but it is in your best interests to complete all 4, as each counts up to 5% towards your final mark. Each assignment will also be posted on Blackboard so that students who are unable to attend their workshop can work on the assignment in their own time. The assignments will consolidate the practical knowledge you gain during the workshops, and help you meet the learning objectives of the course.

### 10.3 In-class Test

**10%**

A 50-minute test is scheduled for Week 6 of the course on Friday 22 August. This will examine all lecture and workshop material covered up to and including 20 August. The in-class test gives you the opportunity to consolidate what you have learnt about the ideological similarities and differences between mātauranga Māori and Western science, examples of scientific practice in

traditional Māori knowledge and Māori development and leadership in science. It will also allow you to identify areas of weakness that may be corrected in time for the final examination.

#### **10.4 Cultural Atlas Exercise 10%**

In 2010, Te Kawa a Māui instigated a School-wide research project that enables student contributions to an electronic 'cultural atlas' (see [www.atlas.maori.nz](http://www.atlas.maori.nz)). In this exercise, students will geographically locate entities of Māori significance (e.g., karaka trees) in the local landscape, and plot these using Google Earth. Student research may contribute to the Cultural Atlas database. This assessment will constitute about 1000 words. Work for this assessment is due by 4:30pm on 3 October. More detail will be given in class and posted on Blackboard. The associated workshop, field trip and assignment is designed to equip you with digital mapping skills that can contribute to recording contemporary mātauranga Māori. The marksheet will be distributed with further instructions in Week 7.

#### **10.5 Essay 20%**

On or before 4:30pm on 17 October you will submit a 1500 word essay. The essay topics will be distributed in lectures and posted on Blackboard. Essays are expected to use the JPS (a variant of Harvard) style of formatting and referencing. Essay topics are designed to allow you the opportunity to investigate more closely an area of interest to you, and to develop your critical writing skills to communicate your understanding and analysis of key issues that face Māori in interacting with 'Western' science. The marksheet will be available on Blackboard.

#### **10.6 Final Examination 40%, Date, time, venue: tbc**

The final examination is a two-hour closed book examination held during the trimester 2 examination period. The date, time and venue will be announced on Blackboard as soon as this information becomes available.

### **11 SUBMISSION AND RETURN OF COURSE WORK**

#### **11.1 Submission of Course Work**

All work submitted for this course **MUST** be posted in the Assignment Box, Māori Studies School Office, 50 Kelburn Parade. All assignments are registered in the Māori Studies School Office. **DO NOT** hand work to the Course Coordinator, or leave assignments under the Course Coordinator's door. Please keep a copy of your work.

You are required to use the standard cover sheet for Te Kawa a Māui assignments. Hard copies of this are available by the Assignment Box.

#### **11.2 Return of Course Work**

Where possible, marked work will be returned to students in class. If a student is absent, or if work is returned in non-teaching periods, students will be notified of its availability via Blackboard, and it can be collected from the Māori Studies School Office at 50 Kelburn Parade. Students can collect their



marked work Monday to Friday between the hours of 9:00am – 1:00pm only. Work cannot be given back outside of these times.

The Course Coordinator endeavours to have work marked and returned within two weeks of its submission.

## 12 EXTENSIONS AND PENALTIES

By prior arrangement and for very good reasons an extension might be granted. However, without an express extension from the Course Coordinator the following late penalties will apply:

- 5%\* will be deducted for every day or part day that the assignment is late. NB\* 5% is equivalent to one grade i.e. from an A+ to an A.
- after ten days the assignment will be accepted for the purposes of meeting the 'course requirements', but no mark will be given.

Unless an extension is previously granted, the final date for submission of MAOR 124 course assessment is Friday 17 October at 4:30pm.

## 13 SET TEXTS

### 13.1 Required Text

You are required to purchase the MAOR 124 Course Reader from vicbooks. You will need to bring this to every lecture and workshop.

### 13.2 Recommended Reading

A variety of texts have been placed on Closed Reserve and 3-day Loan at Te Pātaka Kōrero (the University Library), (Levels 2 and 3 respectively) to assist you with your study and essay writing. Students should return Library books by the due date to avoid Library fines.

The following list gives references that may be useful for the essay topics in the course. Note that the full text of the Elsdon Best monographs is available via MyGateway.info. More details on how to access these are available on Blackboard.

Best, Elsdon, 1955. *The Astronomical Knowledge of the Maori*. Dominion Museum Monograph no. 3 Wellington: Government Printer.

Best, Elsdon, 1959. *The Maori Division of Time*. Dominion Museum Monograph no. 4 Wellington: Government Printer.

Best, Elsdon, 1923. *Polynesian Voyagers. The Maori as a Deep-sea Navigator, Explorer, and Colonizer*. Dominion Museum Monograph no. 5 Wellington: Government Printer.

Chalmers, Alan, 1999. *What is this thing called science? (3<sup>rd</sup> edition)*. Indianapolis: Hackett Publishers

Goldie, W. H, 1904. *Maori Medical Lore*. Papakura: Southern Reprints (1998).

Ladyman, James, 2002. *Understanding Philosophy of Science*. London: Routledge.

Lewis, David, 1972, 1994 (2nd ed.). *We, the Navigators*. Honolulu: University of Hawaii Press.

McLean, Robert and Smith, Tricia, 2001. *The Crown and Flora and Fauna: Legislation, Policies and Practices 1983-98. Waitangi Tribunal Research Series Wai 262 (1997)*. Wellington: Waitangi Tribunal.

Riley, Murdoch, 1994. *Māori Healing and Herbal*. New Zealand Ethnobotanical Sourcebook. Paraparaumu: Viking Sevenses N.Z. Ltd.

Te Kawa a Māui, 2010-2013. *Te Kawa a Māui Atlas*. Available: <http://www.atlas.maori.nz> or <http://www.victoria.ac.nz/maori/atlas>  
Wellington: Victoria University of Wellington.

Williams, David, 2001. *Matauranga Maori and Taonga. Waitangi Tribunal Research Series Wai 262 (1997)*. Wellington: Waitangi Tribunal.

Williams, P. M. E. 1996. *Te Rongoa Maori. Maori Medicine*. Auckland: Reed

You should also tune in to Māori Television to watch the third season of science series Project Mātauranga from August (transmission time to be advised).

### 13.3 Academic Writing Guide

Students will be required to make their written work conform to one of the standards for referencing set out in:

*Te Ara Poutama: Academic Skills Handbook, 2012 edition*. Wellington: Victoria University.

A limited number of booklets will be available from the Māori Studies School Office though you may print your own copy from Blackboard.

## 14 TUAKANA/TEINA MENTORING PROGRAMME

Te Pūtahi Atawhai coordinates the tuakana/teina mentoring programme, which is available for those students who would like assistance with this course, or a mentor to practise with. If this interests you, speak to the Course Coordinator at the beginning of the course.

## 15 CLASS REPRESENTATIVE

The class representative provides a useful way to communicate feedback to the teaching staff during the course. A class representative will be selected at the first lecture. Students may like to write the Class Rep's name and details in this box:

## 16 STUDENT FEEDBACK

Feedback is important to ensure this course contains information of relevance to our students. Based on the feedback of previous students, enhancements have been made to the course. In addition, a Centre for Academic Development (CAD) course evaluation will be conducted at the end of the course, which allows students to give feedback on an anonymous basis.

Student feedback on this and other Victoria courses may be found at [www.cad.vuw.ac.nz/feedback/feedback\\_display.php](http://www.cad.vuw.ac.nz/feedback/feedback_display.php).

## 17 OTHER IMPORTANT INFORMATION

The information above is specific to this course. There is other important information that students must familiarise themselves with, including:

### **Academic Integrity and Plagiarism**

[www.victoria.ac.nz/students/study/exams/integrity-plagiarism](http://www.victoria.ac.nz/students/study/exams/integrity-plagiarism)

### **Aegrotats**

[www.victoria.ac.nz/students/study/exams/aegrotats](http://www.victoria.ac.nz/students/study/exams/aegrotats)

### **Academic Progress**

(including restrictions and non-engagement)

[www.victoria.ac.nz/students/study/progress/academic-progress](http://www.victoria.ac.nz/students/study/progress/academic-progress)

### **Dates and deadlines**

[www.victoria.ac.nz/students/study/dates](http://www.victoria.ac.nz/students/study/dates)

### **FHSS Student and Academic Services Office**

[www.victoria.ac.nz/fhss/student-admin](http://www.victoria.ac.nz/fhss/student-admin)

### **Grades**

[www.victoria.ac.nz/students/study/progress/grades](http://www.victoria.ac.nz/students/study/progress/grades)

### **Māori at Victoria**

[www.victoria.ac.nz/tautoko](http://www.victoria.ac.nz/tautoko)

### **Resolving academic issues**

[www.victoria.ac.nz/about/governance/dvc-academic/publications](http://www.victoria.ac.nz/about/governance/dvc-academic/publications)

### **Special passes**

[www.victoria.ac.nz/about/governance/dvc-academic/publications](http://www.victoria.ac.nz/about/governance/dvc-academic/publications)

### **Statutes and policies**

(including the Student Conduct Statute)

[www.victoria.ac.nz/about/governance/strategy](http://www.victoria.ac.nz/about/governance/strategy)

### **Student support**

[www.victoria.ac.nz/students/support](http://www.victoria.ac.nz/students/support)

### **Students with disabilities**

[www.victoria.ac.nz/st\\_services/disability](http://www.victoria.ac.nz/st_services/disability)

### **Student Charter**

[www.victoria.ac.nz/learning-teaching/learning-partnerships/student-charter](http://www.victoria.ac.nz/learning-teaching/learning-partnerships/student-charter)

### **Student Contract**

[www.victoria.ac.nz/study/apply-enrol/terms-conditions/student-contract](http://www.victoria.ac.nz/study/apply-enrol/terms-conditions/student-contract)

### **Subject Librarians**

<http://library.victoria.ac.nz/library-v2/find-your-subject-librarian>

### **Turnitin**

[www.cad.vuw.ac.nz/wiki/index.php/Turnitin](http://www.cad.vuw.ac.nz/wiki/index.php/Turnitin)

### **University structure**

[www.victoria.ac.nz/about/governance/structure](http://www.victoria.ac.nz/about/governance/structure)

### **Victoria graduate profile**

[www.victoria.ac.nz/learning-teaching/learning-partnerships/graduate-profile](http://www.victoria.ac.nz/learning-teaching/learning-partnerships/graduate-profile)

### **VUWSA**

[www.vuwsa.org.nz](http://www.vuwsa.org.nz)