



Te Kawa a Māui

MAOR 317

Special Topic:

Science and Indigenous Knowledge

Trimester 2 2007

IMPORTANT

Please read and note the information on the back page of this course outline

MAOR 317

Special Topic: Science and Indigenous Knowledge Course Outline 2007

Tēnā koutou. Greetings, and welcome to the inaugural offering of the special topic MAOR317, Science and Indigenous Knowledge. I hope that you will enjoy this course as much as I have enjoyed preparing it. This outline contains important information for your journey through the issues that will be canvassed in MAOR317.

E tipu, e rea mō nga rā o tōu ao

1 KO NGĀ WHAKAHAERE Course Administration

1.1 Ko te Pūkenga Dr Ocean Mercier

Course Coordinator Room 207, 50 Kelburn Parade

Telephone 463 7457

Office Hours Mon, Wed 10am-10:50am

1.2 Class Times Wednesday, Thursday 4:10pm – 6pm

New Kirk, Room 203

1.3 Additional Information Notices and course information will be

posted at the MAOR317 Blackboard site with the url http://blackboard.vuw.ac.nz. Please check the site regularly for notices

and lecture and reading material.

2 KO NGĀ WHĀINGA ME NGĀ HUA

Course Aims, Objectives and Learning Outcomes

This course examines the involvement and engagement of Indigenous peoples in scientific endeavours, historically, in the present day, and in the future. Students will acquire an understanding of the philosophical differences between Western science and Indigenous Knowledge. From this, students will become better equipped to debate contemporary issues, particularly regarding new technologies, at the interface of various cultures' ways of thinking.

By the end of this course students should be able to:

- justify the use of the term "Indigenous science" or "Native science";
- analyse and understand the philosophical differences between indigenous peoples (particularly Māori) and "Western" ideologies;
- give examples of scientific methodology used by indigenous peoples in their traditional knowledge;
- describe indigenous viewpoints on contentious scientific issues;

- understand the challenges facing indigenous people who wish to engage in "Western" science and technologies;
- describe some of the benefits and challenges that await indigenous nations who wish to work together on research projects and educational initiatives.

3 KO NGĀ KAUPAPA MATUA

Course Content

The main themes of the course are:

- What is Science?
- What is Indigenous Knowledge?
- What is the "Interface"?
- Global and Localised knowledge
- Indigenous knowledge in an international context
- Indigenous peoples engagement with science

At the end of this course the students will be expected to:

- Be able to analyse and critique ideas and identify the issues for those working at the interface, in both written and oral forms
- Understand the issues that militate against full participation by indigenous peoples in "Western" science, and suggest ways that these difficulties can be alleviated
- Engage in debates, both written and oral, around ownership of knowledge at the interface
 - with a full command of the important terminologies in "interface" discussions, and an appreciation of the limitations of these
 - With a knowledge of the similarities and differences in worldview for indigenous and non-indigenous peoples
 - with a full cognizance of issues for cross-cultural engagement in the interface eg socio-economic, political, philosophical.
- Have the ability to make a critical comparative analysis of situations for different indigenous peoples that is grounded in current literature by both indigenous and non-indigenous peoples.

4 KO NGĀ PUKAPUKA

Texts

4.1 Text Required

Students are required to purchase the Course Reader, *Science and Indigenous Knowledge MAOR317*, from Student Notes Distribution Centre, Student Union Building for a cost of approximately \$35. You should purchase these early in order to get a head start on your readings.

Te Kawa a Māui, 2007. *Science and Indigenous Knowledge MAOR317*. Wellington: Victoria University Student Notes Distribution Centre.

4.2 Recommended Dictionary

Thompson, Della (ed), 1995. *The Concise Oxford Dictionary of Current English*. Oxford: Clarendon Press. Also available Internet: http://dictionary.oed.com/

4.3 Academic Writing Guide 2007 Edition

For the paltry cost of \$2.90, the extended Te Kawa a Māui Academic Writing Guide 2007 Edition is available for purchase from the Student Notes Distribution Centre, Student Union Building. This guide is required for all Te Kawa a Māui courses. All essays submitted for this course must be formatted using the JPS style, as indicated in the Academic Writing Guide, so make sure you have access to it.

4.4 Blackboard Internet Support

Students will be expected to keep a thorough record of all lecture notes. However, notices and class material, including lecture outlines, will be posted on Blackboard, the Internet learning support site, which may be accessed at the following url: http://blackboard.vuw.ac.nz/. You will be expected to familiarise yourself with Blackboard, although some tuition may be given within the framework of the course.

5 KO NGĀ MAHI

Course Work

5.1 Lectures

MAOR317 is a half year, second trimester course, and two-hour sessions are held two times a week. Wednesday's session will be run as a lecture seminar, and Thursday's session as a tutorial, in which students can present work and discuss issues arising from the Wednesday's lecture. Students should read the week's assigned readings (see the Course Programme, section 10) before Wednesday's class. You MUST attend a minimum of 20 of 24 lectures to meet course requirements. An attendance roll will be taken during each lecture.

Lectures are held on Wednesday and Thursday from 4pm to 6pm in New Kirk Room 203 unless otherwise advised.

Wednesday, Thursday

4:10pm to 6pm

in KK203

5.2 Course Workload

MAOR317 is worth 24 points. Students should allow fifteen hours per week, inclusive of lecture time, for MAOR317, as is standard for a third year course.

MAOR317

2/3

4 hours lectures, 11 hours extra mahi

6 KO NGĀ TATAURANGA

Course Assessment

6.1 Course Work

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

In the case of illness, attendance could become crucial in determining your final mark. In order to stay abreast of material, it is highly important that students attend **all** lectures, **especially** when guest lecturers are scheduled to speak.

6.2 Assessment Tasks

Coursework will account for 100% of the total assessment for this paper. This is made up of an in-class presentation, 10 lecture briefs, an in-class test, an essay and a case study and seminar.

3-12)
ek 6)
2-12)
ek 9)
k 11)
k 12)
9

6.4 Lecture Briefs 20%

Students will be asked to summarise each Wednesday's lecture in 1 page, beginning with the lecture in week 2, to be handed in by 5pm Thursday the next week. These will generally be marked out of 10. You will be required to complete at least 8 out of 10 total briefs, and each one will count up to 2% towards your final mark. Some weeks the brief may be substituted with an online Blackboard test. Students will be given plenty of warning of any adjustments to the brief requirements. The student is expected to treat the briefs as an opportunity to reinforce ideas discussed in lectures, and thereby help meet the learning objectives of the course.

6.5 In-class Test 20%

A 50 minute test is scheduled for the 6th week of the course, in the first hour of the lecture on August 16th. This will examine all lecture material covered before August 16th. The in-class test gives you the opportunity to consolidate what you have learnt, and identify areas of weakness that may be corrected before submitting the essay and Case study assessments.

During the first two lectures of the course, each student will be assigned a reading from the course reader. You will be expected to give a 10 minute overview of the reading, and then lead the class in a discussion on this article. The student will give their assigned reading presentation in the tutorial associated with the reading in question, with the exception of students assigned readings in week 6, who will present on Wednesday, 15 August. These presentations will **begin in week 3**. The Programme Outline in section 10 gives details of when each reading will be discussed. The presentation will give you the opportunity to delve more deeply into a particular reading. Good presentations will display a thorough knowledge of the reading and its wider context.

6.7 Essay 25%

On or before 5pm on the **20**th **of September** you will submit a 2500-word essay, worth 25%. The essay topics will be distributed in lectures and posted on Blackboard. Essays are expected to adhere to the JPS style of formatting and referencing. Essay topics are designed to allow you the opportunity to investigate more closely an area of interest to you, yet within the confines of the course objectives.

6.8 Case study Report and Seminar

20%

In these two pieces of assessment students will be required to find and discuss a particular case study. This should be a current/recent research project or educational initiative that explores the interface between Western and Indigenous science and knowledge. Students will be required to write a 1500 word report that describes the project and critiques its aims and achievements with respect to the readings and themes discussed in MAOR317. The report should include an abstract, main body and conclusion. Students will also give a 5-minute presentation on their case study. The presentations will be held in the session on **October 4th**. The report must be submitted by **5pm October 11th**. Equal weighting will be given to both the presentation and the report (ie 10% each).

7 KO NGĀ WHIUNGA

Penalties

7.1 Penalties

Extensions will only be granted for extenuating circumstances. You should contact the pūkenga as soon as you aware of any issues that may impinge on timely submission of your work. Work submitted late will be penalised by 5% for each day. Where students have not informed the course coordinator, more severe penalties may be imposed.

IMPORTANT: Students who, due to illness or bereavement, are unable to attend sessions in which they have been scheduled to give presentations MUST provide evidence for their absence. For the sake of thematic continuity it is imperative that readings are presented on the dates assigned. Because of this necessity you may not be given another opportunity to present your work if you miss your time slot.

8 KO NGĀ MAHI

Course Requirements

Mandatory Course Requirements

In order to complete this course, students must:

- attend at least 20 of 24 lectures in total:
- complete a minimum of 8 out of 10 briefs;
- give a reading presentation;
- submit a 2500 word essay;
- sit an in-class test;
- submit a case study report and seminar;
- attain a minimum combined mark of 50%.

9 KO NGĀ HAUĀ

Students with a Disability

The University has a policy of reasonable accommodation for the needs of students with disabilities in examinations and other assessment procedures. Please contact the Course Coordinator if you have any queries or issues.

10 KO TE MĀHERE MAHI

Course Programme

This programme provides an outline of lecture content. The programme is a guide only and may be adjusted to suit guest lecturer needs. It may also be tailored to the needs and requests of the students in the course. The readings to be discussed each week are given by author and Course Reader page in the Lecture Theme column. Please ensure that you read the week's readings before Wednesday's lecture, and be ready to discuss them in Thursday's session.

Week	Trimester One	Lecture Theme	Assessment Due
1	Wed July 11	Indigenous Knowledge	
	Thurs July 12	Introduction, Course Overview	
2	Wed July 18	Indigenous Philosophy	
	Thurs July 19	Readings: Durie (p3), Cajete (p101)	
3	Wed July 25	Transmitting Traditional Knowledge	
	Thurs July 26	Readings: Simpson (p65), Harmsworth (p71)	
4	Wed Aug 1	Traditional Ecological Knowledge	
	Thurs Aug 2	Readings: McGregor (p31), Berkes (p43)	
5	Wed Aug 8	"Western" Science	
	Thurs Aug 9	Readings: Morris (p143), Bohm (p131)	
6	Wed Aug 15	The Interface - non-Indigenous perspectives	
	Thurs Aug 16	Readings: Capra (p83), Peat (p173)	Class Test Aug 16

Week	Trimester One	Lecture Theme	Assessment Due		
20 August – 2 September MID COURSE BREAK: NO LECTURES					
7	Wed Sep 5	The Interface – Indigenous perspectives			
	Thurs Sep 6	Readings: Nakata (available on Blackboard), Deloria (p157), Kawagley (p115)			
8	Wed Sep 12	Indigenous Language and Education			
	Thurs Sep 13	Readings: McKinley (197), Cajete (p205), Kawagley (p217)			
9	Wed Sep 19	Indigenous Language and Education			
	Thurs Sep 20	Readings: Aikenhead (p223), Barnhardt (p233)	Essay Due Sep 20		
10	Wed Sep 26	Indigenous Research			
	Thurs Sep 27	Readings: Rigney (p251), Roberts (p15), Bacigalupo (p259)			
11	Wed Oct 3	Indigenous People and Biotechnologies	Case Study		
	Thurs Oct 4	Readings: IPCB (p283), Cooke (p55)	Seminars Oct 4		
12	Wed Oct 10	Tino Rangatiratanga	Case Study		
	Thurs Oct 11	Readings: Hutchings (p265), Williams (p277)	Report due Oct 11		

11 KO NGĀ PUKAPUKA Reference Texts

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.

Reference Texts

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.

- Battiste, Marie and Henderson, Sakej Youngblood, 2000. *Protecting indigenous knowledge and heritage: a global challenge.* Saskatoon: Purich Pub.
- 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.

- Cajete, Gregory, 2000. *Native Science. Natural Laws of Interdependence.*Santa Fe: Clear Light Publishing.
- Deloria, Vine, 1997. Red Earth White Lies. Native Americans and the Myth of Scientific Fact. Colorado: Fulcrum Publishing.
- Goldie, W. H, 1904. Maori Medical Lore. Papakura: Southern Reprints (1998).
- Kawagley, Angayuqaq Oscar, 2006 (2nd ed.). A Yupiaq Worldview: a pathway to ecology and spirit. Long Grove, III.: Waveland Press.
- Ladyman, James, 2002. *Understanding Philosophy of Science*. London: Routledge.
- 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.
- Nakata, Martin, 2007. *Disciplining the savages: savaging the disciplines.* Canberra: Aboriginal Studies Press.
- Peat, F. David, 2002. *Blackfoot physics : a journey into the Native American universe*. Grand Rapids, MI : Phanes Press.
- Riley, Murdoch, 1994. *Māori Healing and Herbal. New Zealand Ethnobotanical Sourcebook.* Paraparaumu: Viking Sevenseas N.Z. Ltd.
- 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

12 General University Requirements

Student and Staff Conduct

Academic Grievances

Academic Integrity and Plagiarism

Students with Impairments

Student Support

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 available in hard copy or under 'About Victoria' on the VUW home page at www.vuw.ac.nz.

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 VUW policy website at www.vuw.ac.nz/policy/student conduct. The Policy on Staff Conduct can be found on the VUW website at www.vuw.ac.nz/policy/staffconduct.

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; VUWSA Education Coordinators are 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 VUW website at www.vuw.ac.nz/policy/academicgrievances

Academic Integrity and Plagiarism

Academic integrity is about honesty – put simply it means *no cheating*. All members of the University community are responsible for upholding academic integrity, which means staff and students are expected to behave honestly, fairly and with respect for others at all times.

Plagiarism is a form of cheating which undermines academic integrity. The University defines plagiarism as follows:

The presentation of the work of another person or other persons as if it were one's own, whether intended or not. This includes published or unpublished work, material on the Internet and the work of other students or staff.

It is still plagiarism even if you re-structure the material or present it in your own style or words.

Note: It is however, perfectly acceptable to include the work of others as long as that is acknowledged by appropriate referencing.

Plagiarism is prohibited at Victoria and is not worth the risk. Any enrolled student found guilty of plagiarism will be subject to disciplinary procedures under the Statute on Student Conduct and may be penalized severely. Consequences of being found guilty of plagiarism can include: an oral or written warning, cancellation of your mark for an assessment or a fail grade for the course, suspension from the course or the University. Find out more about plagiarism, and how to avoid it, on the University's website www.vuw.ac.nz/home/studying/plagiarism.html.

Students with Impairments (see Appendix 3 of the Assessment Handbook)

The University has a policy of reasonable accommodation of the needs of students with disabilities. 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, and 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. Each faculty has a designated staff member who can either help you directly if your academic progress is causing you concern, or quickly put you in contact with someone who can. In the Faculty of Humanities and Social Sciences the support contact is Dr Allison Kirkman, Murphy Building, room 407. Assistance for specific groups is also available from the Kaiwawao Māori, Manaaki Pihipihinga or Victoria International.

Manaaki Pihipihinga Programme

This programme offers:

- academic mentoring for all Māori Studies students at all levels of undergraduate study. Contact Dee O'Carroll via email dee.ocarroll@vuw.ac.nz or phone 463 9977 to register for mentoring for Commerce and Administration courses
- postgraduate support network links students into all of the postgraduate activities and workshops on campus and networking opportunities. Contact manaaki-pihipihinga-progamme@vuw.ac.nz or phone 463 6015
- the Pacific Support Coordinator assists Pacific students with transitional issues, disseminates useful information and provides any assistance needed to help students achieve. Contact pacific-supportcoord@vuw.ac.nz or phone 463 5842.

Manaaki Pihipihinga is located at 14 Kelburn Parade, back court yard, Room 109 D (for Humanities mentoring and some first year Commerce mentoring) or Room 210, Level 2, West Wing Railway Station, Pipitea (Commerce mentoring space). Te Kawa a Māui mentoring is done at Te Herenga Waka Marae.

Student Services

In addition, the Student Services Group is available to provide a variety of support and services. Find out more at www.vuw.ac.nz/st_services/ or email student-services@vuw.ac.nz.

VUWSA employs Education Coordinators who deal with academic problems and provide support, advice and advocacy services, as well as organising class representatives and faculty delegates. The Education Office is located on the ground floor, Student Union Building. Telephone the Education Office on 463-6983 or 463-6984, and email at education@vuwsa.org.nz.

13 Withdrawal Details

Have you changed your mind about the courses you want to do this trimester? If you do not withdraw from a course in time, you will receive a fail grade.

A fail grade stays permanently on your academic record. You can avoid the fail grade by withdrawing properly from courses before it is too late!

To withdraw from a course you must complete a change of course form, available from your Faculty Student Administration Office, and submit it by the following deadlines.

Second Trimester Papers, July - October 2007

No addition of first trimester courses permitted after Friday, 20 July 2007.

Withdraw before **Friday**, **20 July 2007** and you will get a refund of fees. The course will no longer appear on your academic record.

Withdraw by **Friday, 21 September 2007** and you will avoid getting a fail grade on your student record. The course will be graded WD, which means 'withdrawn'. This will remain permanently on your academic record but it is not a failing grade. Withdrawal (WD) grades do not appear on an official transcript.

Full-Year Papers, February - October 2007

No addition of full-year courses permitted after Friday, 23 March 2007.

Withdraw before **Friday**, **9 March 2007** and you will get a refund of fees. The course will no longer appear on your academic record.

Withdraw by **Friday**, **17 August 2007** and you will avoid getting a fail grade on your student record. The course will be graded WD, which means 'withdrawn'. This will remain permanently on your academic record but it is not a failing grade. Withdrawal (WD) grades do not appear on an official transcript.