

2021 Rārangi Akoranga Course Catalogue



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Information is correct as at the time of publication but is subject to change. The University's official regulations and policies are available online at www.canterbury.ac.nz/regulations

Audrey Pearl Black (1919-2001), Wallpaper design, c. 1940, Water based paint stencilled on paper, UC-MBL-1349, UC Art Collection, www.kohika.canterbury.ac.nz

Audrey Black was born in Sumner in 1919. She attended Palmerston North Technical School, and then Canterbury College School of Art in the early 1940s, graduating with a diploma in 1943. After Art School she was involved in war work while continuing her painting and embroidery at home.

Black's strength in decorative design exemplifies the pervasive influence of the British Arts & Crafts movement in New Zealand's art schools. Her wallpaper designs acknowledge William Morris's curving and trailing stems and the designs developed by Mackmurdo's Century Guild, early 1880s, as well as the English commercial designer Lewis Day, through her lecturer Florence Akins's design instruction at the Canterbury College School of Art.

In 2005, the UC Art Collection received a generous donation from the artist's daughter Sue Potter. This included Black's student portfolio, embroidery samplers, wallpaper designs and life study drawings. The donation provides a unique insight into art practice and teaching at the Canterbury College School of Art during the 1940s.

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2021 Rārangi Akoranga | Course Catalogue

Course information in the 2021 Rārangi Akoranga | Course Catalogue is, as far as possible, accurate up to 30 Whitu | November 2020. However, course information is subject to change. Please check www.canterbury.ac.nz/courses for the latest information.

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How to read a Rārangī Akoranga | Course Catalogue entry

The diagram below explains the components of a typical course entry (the example shown is for the purposes of illustration only and is not a real course).

Course code	_____ PHYS 399 Physics Research _____	Course title
Points	_____ 15 points _____ 0.1250 EFTS _____	EFTS
Course description	_____ Study of the physics of stellar structure, Martian equations, as well as the theoretical and practical implications of cultural discourse. _____	
Prerequisites	_____ P: MATH 105 _____	
Corequisites	_____ C: PHYS 398 _____	
Restrictions	_____ R: ASTR 392 _____	
Recommended preparation	_____ RP: PHYS 201 _____	
Equivalent courses	_____ EQ: ASTR 392 _____	
Course occurrence code	_____ PHYS399-21SU2 (C) Semester 1 _____	
Notes	_____ <i>Note: Limited entry. See limitation of entry regulations.</i> _____	

Course code

The course code consists of a four-letter subject code (eg, PHYS for Physics) and a three digit number (eg, 399), the first number of which indicates the level of the course (eg, 399 = 300-level).

Course title

The course title (eg, Physics Research) provides a quick guide to the area covered by the course.

Pts: Points

This is the number of points that will be credited to your degree/diploma/certificate if you pass the course.

EFTS

EFTS means 'equivalent full-time student'. This is the Ministry of Education's basic unit of funding to the University. The EFTS value of a course is multiplied by the appropriate fee band to determine the fees for a course. The EFTS value can also be used to a guide to workload.

Course description

The course description is a brief summary of the topics that are covered by the course.

Prerequisites

Prerequisites are the course(s) you need to pass before you can enrol in a course.

Corequisites

Corequisites are courses you must either have already passed, or be concurrently enrolled in, to enrol in a course.

Restrictions

A restriction means you cannot count both this course and any course(s) restricted against it towards your degree. Restrictions occur where two (or more) courses cover substantially the same material..

Recommended preparation

Recommended preparation (RP) includes a course (or courses) the school or department recommends you take before enrolling in a course.

Equivalent courses

Equivalent courses are courses which cover the same material but which are coded to different subjects or different qualifications.

Course occurrence code

eg, **PHYS 399-21SU2 (C) Summer (Nov20)**

The course occurrence code is made up of the course code (eg, PHYS 399), the year it is being offered in (eg, 21 = 2021), a semester indicator (eg, SU2 = Summer course with a November 2021 start date) and a site indicator (eg, C = Christchurch) – see over page for a list of official course start dates and site codes. One course can have multiple occurrences.

Notes

The notes field contains any other important information which relates to the course.

Semester indicators and 2021 course start dates

Semester Indicator	Semester Description	Official course start date	Official course finish date
S1	Semester One	22 February	25 June
S2	Semester Two	19 July	12 November
W	Whole Year	22 February	12 November
CY	Cross Year	19 July	1 July 2022
B1	Bridging One	22 February	6 June
B2	Bridging Two	19 July	31 October
FY	Full Year	22 February	21 February 2022
BTM21T1*	BTM One	1 February	25 April
BTM21T2*	BTM Two	17 May	8 August
BTM21T3*	BTM Three	30 August	21 November
MBA21T1	MBA One	8 February	2 May
MBA21T2	MBA Two	24 May	15 August
MBA21T3	MBA Three	6 September	28 November
YA	Full Year A	1 February	14 November
YA1	Full Year A (First Half)	1 February	20 June
YA2	Year A (Second Half)	5 July	14 November
YB	Full Year B	1 February	14 November
YB1	Year B (First Half)	1 February	4 July
YC1	Year C (First Half)	15 February	27 June
YC2	Year C (Second Half)	19 July	21 November

Notes: These dates were accurate as at Whitu / November 2020. All dates are 2021 unless otherwise noted. Any changes will be updated on www.canterbury.ac.nz/study/keydates

* BTM relates to the Business Taught Masters Programme and includes the following courses codes MBAZ, MBUS, MPAC, MFIN, MBIS.

Summer courses and other semester indicators

The following semesters start and finish on various dates.

Semester Indicator	Semester Description
SU1	Summer (January 2021 start)
SU2	Summer (November 2020 start)
BSU1	4 January
BSU2	15 November
T1	Term One
T2	Term Two
T3	Term Three
T4	Term Four
X	General non-calendar-based
A	Any Time Start

Site codes

Code	Description
A	Christchurch, Arts Centre
C	Christchurch, on-campus
D	Distance
N	Nelson

Accounting

Department of Accounting and Information Systems

ACCT 102 Accounting and Financial Information

15 Points 0.1250 EFTS

Students will develop an understanding of the structure and functions of general purpose financial reports from a reader's perspective. They will be introduced to current non-financial reporting issues such as the challenge of sustainability within business and society. Students will gain an introductory understanding of management accounting and business finance.

R: ACIS 102, AFIS 101, AFIS 102, AFIS 111, AFIS 122, AFIS 132, AFIS 188.

ACCT102-21S1 (C) Semester 1

ACCT102-21S2 (C) Semester 2

ACCT 103 Accounting and Taxation: An Introduction

15 Points 0.1250 EFTS

The course introduces taxation and accounting in the context of service, retail, manufacturing, tourism, farming and construction businesses. It includes the rudiments of bookkeeping and the preparation of reports about cash flows, profits and accumulating capital and wealth. It caters for accounting and taxation majors, and for entrepreneurially-minded students contemplating running their own businesses.

P: ACCT 102

R: ACIS 103, AFIS 101, AFIS 103, AFIS 111, AFIS 121, AFIS 131

ACCT103-21S1 (C) Semester 1

ACCT103-21S2 (C) Semester 2

ACCT 152 Law and Business

15 Points 0.1250 EFTS

An introduction to the legal environment of business in New Zealand including the Treaty of Waitangi and the Bill of Rights, and concepts of contract, tort, trusts, property and law of principal and agent.

R: ACIS 152, AFIS 151, AFIS 152

ACCT152-21S1 (C) Semester 1

ACCT 211 Financial Accounting

15 Points 0.1250 EFTS

The course develops further understanding of financial accounting issues for companies and other entities in their New Zealand and international context. Topics include: the NZ regulatory environment; profit determination; presentation of financial statements including group accounts; current issues in financial accounting.

P: ACCT 102 and ACCT 103

R: ACIS 211, AFIS 211

ACCT211-20SU2 (C) Summer (Nov 20)

ACCT211-21S2 (C) Semester 2

ACCT 222 Management Accounting

15 Points 0.1250 EFTS

An introduction to contemporary management accounting theory and practice. Topics include: planning and budgeting; cost management; decision-making; performance measurement and evaluation; and strategic management accounting.

P: ACCT 102

R: ACIS 222, AFIS 222

EQ: ACIS 222, AFIS 222

ACCT222-21S1 (C) Semester 1

ACCT 252 Law of Business Contracts

15 Points 0.1250 EFTS

This course considers the general principles of contract law and the concepts of consumer law.

P: ACCT 152 or LAWS 101

R: ACIS 252, AFIS 151, AFIS 252, LAWS 203.

ACCT252-21S2 (C) Semester 2

ACCT 254 Taxation

15 Points 0.1250 EFTS

The general principles of taxation. Topics include: principles of residence and source, the taxation of income from employment, personal property sales, deductions, depreciation, leases and trading stock and the dispute resolution process. The course will provide a working knowledge of income tax, GST, and FBT.

P: ACCT 103

C: ACCT 152 or LAWS 101

R: ACIS 254, AFIS 254

EQ: ACIS 254

ACCT254-21S1 (C) Semester 1

ACCT 256 Law of Business Organisations

15 Points 0.1250 EFTS

This course considers aspects of the law relating to companies, partnerships and other trading structures and provides an introduction to personal and corporate insolvency law.

P: ACCT 152 or LAWS 101

R: AFIS 253, ACIS 256, AFIS 256, LAWS 305, LAWS 312

ACCT256-21S2 (C) Semester 2

ACCT 311 Financial Accounting: Theory & Practice

15 Points 0.1250 EFTS

How is financial accounting information created and communicated? What purposes does it serve? Who uses the information and how? What are the roles of theory and practice in this process? How do agents influence this process and what are their motives? - The course explores topics such as standard setting, accounting allocations, wealth creation, revenue recognition, equity valuation and bankruptcy prediction. The topics follow matters that have been debated for some time and which remain central to financial accounting discourse. The objective of the course is for students to be able to demonstrate advanced knowledge of these contemporary accounting issues and challenges.

P: ACCT 211

R: AFIS 301, ACIS 311, AFIS 311, AFIS 501.

ACCT311-21S1 (C) Semester 1

ACCT 312 Advanced Financial Accounting

15 Points 0.1250 EFTS

Develops advanced understanding and abilities in aspects of financial accounting, including financial instruments, tax effect accounting and foreign exchange.

P: ACCT 211

R: ACIS 312, AFIS 301, AFIS 312, AFIS 501.

ACCT312-20SU2 (C) Summer (Nov 20)

ACCT312-21S2 (C) Semester 2

ACCT 316 Public Management and Governance

15 Points 0.1250 EFTS

Where does your water come from? How can you manage, control and account a hospital? If you were elected to a regional council, how would you balance farming, fishing, tourism and conservation interests? This course examines how public services are governed and managed locally, nationally and internationally, bringing in such challenges as achieving consensus among publics with differing politics and competing interests, making the most of scarce resources, recovering from natural disasters and persuading people to fund services through taxation.

P: Any 45 points at 200-level or above.

R: ACIS 316, AFIS 316, AFIS 516, POLS 316

EQ: ACIS 316, and AFIS 316

ACCT316-21S1 (C) Semester 1

ACCT 332 Advanced Management Accounting

15 Points 0.1250 EFTS

Develops advanced understanding of the application of management accounting to complex problems. Explores issues in strategic management, costing systems, control systems and performance management. Builds communication, critical thinking and managerial skills.

P: ACCT 222 and ACCT 103

R: ACIS 332, AFIS 332, AFIS 322, AFIS 522

ACCT332-21S2 (C) Semester 2

ACCT 340 Social and Environmental Reporting

15 Points 0.1250 EFTS

A study of forms of non-financial accounting; possibilities and limitations; philosophies behind different accounts - especially sustainability accounts and intellectual capital statements; reasons for non-financial accounting; problems such accounts can contribute to solve.

P: Any 45 points at 200-level or above.

R: ACIS 340, AFIS 340

ACCT340-21S1 (C) Semester 1

ACCT 341 Public Accounting and Finance

15 Points 0.1250 EFTS

What does the NZ Government do with your \$100 billion? Indeed, what does any national or local government do with the trillions of dollars in taxes they collect? Students will consider these and related questions, examining the roles and practices of accounting and finance among political, official and professional persons involved in governmental organisations in such domains as education, health and welfare, conservation, security, and institutional, material, economic and social infrastructure.

P: Any 45 points at 200-level or above.

R: ACIS 341, AFIS 341

EQ: ACIS 341

ACCT341-21S2 (C) Semester 2

ACCT 346 Auditing

15 Points

0.1250 EFTS

The need for and the nature of auditing; knowledge base about audit theory and method; skills needed for the practice of auditing; issues confronting the auditing profession.

P: INFO 123 and ACCT 211.

R: ACIS 346, AFIS 306, AFIS 346, AFIS 506.

RP: INFO 243

ACCT346-21S1 (C)**Semester 1****ACCT 356 Advanced Auditing**

15 Points

0.1250 EFTS

A study of advanced topics and contemporary issues in auditing, such as audit data analytics, fraud auditing, and the roles of professional judgement and scepticism.

P: ACCT 346

R: ACIS 356, AFIS 306, AFIS 356, AFIS 506.

ACCT356-21S2 (C)**Semester 2****ACCT 358 Advanced Taxation**

15 Points

0.1250 EFTS

This course considers the interpretation of legislation; tax planning, tax avoidance and tax evasion; tax investigations and dispute resolution; tax penalties; ethics; international taxation; and company taxation.

P: (1) ACCT 152 or LAWS 101; and (2) ACCT 254 OR LAWS 352

R: ACIS 358, ACIS 354

ACCT358-21S1 (C)**Semester 1****ACCT 359 Further Issues in Advanced Taxation**

15 Points

0.1250 EFTS

This course includes consideration of tax compliance; business and tax ethics; tax policy; international taxation; and an introduction to the charities sector (and other taxation issues) in New Zealand.

P: ACCT 358

R: ACIS 359, ACIS 354

EQ: ACIS 359

ACCT359-21S2 (C)**Semester 2****ACCT 390 Accounting Internship**

15 Points

0.1250 EFTS

An accounting internship involving real world work experience that enables the (further) development and application of knowledge and/or expertise in accounting related subjects; problem solving; reflection; synthesis; and communication skills.

P: (1) At least 60 points in 200 level ACCT courses (2) Subject to Head of Department Approval

R: ACCT 364, ECON 390, FINC 390, MKTG 390, INFO 390

ACCT390-21S1 (C)**Semester 1****ACCT390-21S2 (C)****Semester 2****Tāura | Postgraduate**

Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.

ACCT 614 Research Methodology and Epistemology

30 Points

0.2500 EFTS

ACCT614 seeks to provide students with a thorough introduction to the principal assumptions that underpin the development of research ideas in accounting, information systems and related disciplines. More particularly, it seeks to expose students to the theoretical and philosophical foundations of knowledge and reality. You will also be introduced to both quantitative and qualitative research methods.

P: Subject to approval of the Head of Department.

R: ACIS 614, AFIS 614, INFO 614

ACCT614-21S1 (C)**Semester 1****ACCT 623 Management Accounting Research**

15 Points

0.1250 EFTS

The course examines current issues in management accounting research.

P: Subject to approval of the Head of Department.

R: ACIS 623, AFIS 623

ACCT623-21S2 (C)**Semester 2****ACCT 624 Corporate Governance**

15 Points

0.1250 EFTS

Corporate governance theory and practice. Topics include: Corporate governance in New Zealand, Australia, and around the world; Theories of corporate governance; The board of directors and its committees; Director and executive remuneration; Corporate governance scandals; and Stakeholders.

P: Subject to approval of the Head of Department.

R: FINC 611, FINC 650, ACIS 624

EQ: FINC 611

ACCT624-21S2 (C)**Semester 2****ACCT 626 Advanced Issues in Tax Compliance**

15 Points

0.1250 EFTS

The objective of this course is to give a critical examination of advanced aspects of taxation theory, law, and practice from a tax compliance perspective. The course draws upon theories and research techniques from accounting and other disciplines, including economics, law, psychology, and sociology.

P: Subject to approval of the Head of Department.

R: ACIS 626, AFIS 626

ACCT626-21S2 (C)**Semester 2****ACCT 634 Contemporary Issues in Taxation**

15 Points

0.1250 EFTS

The objectives of this course are to critically explore current issues in taxation; to consider some of the primary theoretical frameworks used in tax research; and to investigate global approaches to important tax issues.

P: Subject to approval of the Head of Department

R: ACIS 634

ACCT634-21S1 (C)**Semester 1****ACCT 635 Special Topic**

15 Points

0.1250 EFTS

P: Subject to approval of the Head of Department

ACCT635-21S1 (C)**Semester 1****ACCT 648 Contemporary Issues in Financial Accounting**

15 Points

0.1250 EFTS

The course will engage students in analysis of a wide range of contemporary issues in financial accounting and financial reporting. At the conclusion of the course, students will have acquired a deeper and more critical appreciation of the corpus of contemporary financial accounting thought and practice.

P: Subject to approval of the Head of Department

R: ACIS 648

ACCT648-21S1 (C)**Semester 1****ACCT 658 Contemporary Research in Auditing**

15 Points

0.1250 EFTS

This course (1) develops students' abilities to identify and understand contemporary auditing issues and related professional problems, and (2) develops a capability to identify, design and conduct research relating to such issues/problems.

P: Subject to approval of the Head of Department

R: ACIS 658, AFIS 658

ACCT658-21S1 (C)**Semester 1****ACCT 659 Sustainability, Business, and Social and Environmental Accountability**

15 Points

0.1250 EFTS

This course exposes students to an array of international and NZ-based emerging issues in sustainability, and the role of business organisations in contributing to sustainable development, as well as how such organisations account for and report on their social and environmental impacts.

P: Subject to approval of the Head of Department.

R: ACIS 659, AFIS 659

ACCT659-21S2 (C)**Semester 2****ACCT 680 Research Project**

30 Points

0.2500 EFTS

This course is one of individual study under personal supervision. It entails carrying out research over a seven month period, and writing a report about how and why the research was conducted, what was found and the implications of these findings. The course is designed for students completing the B.Com(Hons) degree in Accounting or Taxation and Accounting.

P: Subject to approval of the Head of Department

R: ACIS 680, AFIS 680, INFO 680

ACCT680-21A (C)**Starts Anytime****ACCT680-21W (C)****Whole Year (S1 and S2)****ACCT 690 MCom Thesis**

120 Points

1.0000 EFTS

P: Subject to approval of the Head of Department.

R: ACIS 690, AFIS 690

ACCT690-21A (C)**Starts Anytime**

Part-time enrolment (0.65 EFTS) is available on approval.

ACCT 694 MCom Thesis
90 Points 0.7500 EFTS
P: Subject to approval of the Head of Department
ACCT694-21A (C) Starts Anytime

ACCT 790 Accounting PhD
120 Points 1.0000 EFTS
P: Subject to approval of the Head of Department.
R: ACIS 790, AFIS 790
ACCT790-21A (C) Starts Anytime

*Part-time enrolment (0.65 EFTS) is available on approval. *From 1 January 2008, international students who are residing in New Zealand on a NZ Immigration Study Visa pay the Domestic Fee for this course. International fees apply for all other courses.*

Antarctic Studies

Gateway Antarctica

ANTA 101 Antarctica
15 Points 0.1250 EFTS
This introductory course explores the Antarctic continent and the Southern Ocean. It aims to develop an understanding of the relevance of the polar regions to current issues such as climate change, environmental management, and living resource conservation and protection. The content of the course will be a combination of ANTA102 and ANTA103. The course will be delivered entirely online through LEARN, which will allow students flexibility as to when they view the lectures.

R: INCO 103, ANTA 102 and ANTA 103, ANTA 112 and ANTA 113

ANTA101-20SU2 (D) Summer (Nov 20)

ANTA101-21SU2 (D) Summer (Nov 20)

ANTA 102 Antarctica: The Cold Continent

15 Points 0.1250 EFTS
This introductory course explores the evolution of the Antarctic continent, the dynamics of polar ice, the drivers of weather and climate in Antarctica, the circulation of the Southern Ocean, astronomy and human interaction with the polar region including the history of exploration and intriguing legal issues.

ANTA102-21S1 (C) Semester 1

ANTA 103 Antarctica: Life in the Cold

15 Points 0.1250 EFTS
This introductory course focuses on biology and explores how plants, microbes, animals and humans adapt to living in the extreme environments of the Antarctic, the sub-Antarctic and the Southern Ocean. Low temperatures and periods of total darkness are just some of the extremes to be endured. Discussion includes human psychology, and our interaction with the polar region lying at New Zealand's back door.

ANTA103-21S2 (C) Semester 2

ANTA 201 Antarctica and Global Change

15 Points 0.1250 EFTS
This course provides a multidisciplinary approach to understanding how Antarctica will be affected by global change. It takes a Science System approach and investigates the linkages between the Antarctic atmosphere, cryosphere, lithosphere and biosphere.

P: 30 points from 100-level Antarctic Studies, Biology, Geography or Geology courses

ANTA201-21S2 (C) Semester 2

Tāura | Postgraduate

Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.

ANTA 601 Antarctica: Contemporary Issues, Perspectives Part 1

15 Points 0.1250 EFTS
A critical examination of the major scientific and environmental themes and contemporary issues facing Antarctica and the Southern Ocean. This course will be taught as an intensive summer school, and will include lectures, workshops, seminars, syndicate work, and Christchurch-based field work. This course will be offered in November. ANTA601 is one of the four compulsory courses (ANTA601-604), which make up the Postgraduate Certificate in Antarctic Studies.

P: Subject to approval of the Head of Department.

R: ANTA 501

ANTA601-21X (C) 08 Nov 2021 - 06 Mar 2022

Limited entry. See limitation of entry regulations.

ANTA 603 Antarctic Field Work

15 Points 0.1250 EFTS
An 8-10 day field course at Scott Base and in Windless Bight, Antarctica, comprising a mix of analytical projects (data and information gathering, analysis and interpretation) and interpretative exercises. Antarctic field training and the experience of living and working in the polar environment are additional components of this course. A written report on field projects will be required. This course will be offered in November. ANTA603 is one of the four compulsory courses (ANTA601-604), which make up the Postgraduate Certificate in Antarctic Studies.

P: Subject to approval of the Head of Department.

R: ANTA 503

ANTA603-21X (C) 08 Nov 2021 - 06 Mar 2022

Limited entry. See limitation of entry regulations.

ANTA 607 Introduction to Antarctic Studies and Research

30 Points 0.2500 EFTS
A major written literature review and project report on an approved topic relating to Antarctica and the Southern Ocean as appropriate, including the analysis of newly acquired or available data or information. Projects on offer, along with pre-requisites, will be made available at least a month prior to the PCAS/MASt course application deadline and students will be encouraged to contact a potential supervisor to assist in identifying a good match between supervisors' and supervisees' skillsets. The literature study will start at enrolment into the course. Project allocations will have to be approved by supervisors, and students will need to make contact with the project supervisor prior to the commencement of the course. Practical components, data analysis, and field experiments may be related to ANTA603 (Antarctic field work) in some cases, but, this will need to be discussed with the course coordinator and project supervisor at an early stage. All projects will be expandable into a MAST dissertation topic if agreed with the relevant project supervisor.

P: Subject to approval of the Head of Department.

R: ANTA 602 and ANTA 604

ANTA607-21X (C) 08 Nov 2021 - 13 Feb 2022

ANTA 691 Dissertation

90 Points 0.7500 EFTS

A dissertation in Antarctic Studies

P: 60 points (ANTA 601; ANTA 602; ANTA 603; ANTA 604)

ANTA691-21A (C) Starts Anytime

ANTA 692 Thesis

120 Points 1.0000 EFTS

Research thesis on a topic of relevance to Antarctic Studies.

P: Subject to the approval of the Head of Department.

ANTA692-21A (C) Starts Anytime

Part-time enrolment (0.65 EFTS) is available on approval.

ANTA 790 Antarctic Studies PhD

120 Points 1.0000 EFTS

P: Subject to approval of the Head of Department.

ANTA790-21A (C) Starts Anytime

*Part-time enrolment (0.65 EFTS) is available on approval. *From 1 January 2008, international students who are residing in New Zealand on a NZ Immigration Study Visa pay the Domestic Fee for this course. International fees apply for all other courses.*

Anthropology

School of Language, Social and Political Sciences

ANTH 212 Kinship and Family in Comparative Perspective

15 Points 0.1250 EFTS

This course focuses on the importance and nature of family and kinship in the construction and maintenance of social relations by individuals as well as groups, in a variety of ethnographic contexts.

P: Any 15 points at 100 level from ANTH or SOCI or any 60 points at 100 level from the Schedule V of the BA.

R: ANTH 312, GEND 218, GEND 318, SOCI 212, SOCI 312

EQ: SOCI 212

ANTH212-21S1 (C) Semester 1

ANTH 223 Ethnicity, Racism and History

15 Points 0.1250 EFTS

This course provides a critical introduction to the historical and anthropological study of ethnicity, racism, genocide and migration.

P: Any 15 points at 100 level from ANTH, HIST, MAOR, or SOCI, or 60 points at 100 level from the Schedule V of the BA.

R: HIST 283, MAOR 230, PACS 204, SOCI 223

EQ: HIST 283, MAOR 230, PACS 204, SOCI 223

ANTH223-21S2 (C) Semester 2

ANTH 238 Exploring the Past: Public History, Memory and Material Culture

15 Points 0.1250 EFTS

This course is a 'hands-on' introduction to public history and historical ethnography, taught through a combination of workshops, tutorials and field trips.

P: Any 15 points at 100 level from ANTH, HIST, or SOCI, or any 60 points at 100 level from the Schedule V of the BA.

R: HIST 288, SOCI 238

EQ: HIST 288, SOCI 238

ANTH238-21S1 (C) Semester 1**ANTH 298 Religion & Society: Why God won't die**

15 Points 0.1250 EFTS

This course is an introduction to the Sociology & Anthropology of religion focused on thinking and rethinking religion, culture & society. Central to the discussion is why god and religion has not disappeared as was predicted in much modern social theory. In considering this question, the course provides a critical discussion of the ways religion, god and religious practices have been thought, dismissed and applied over the past 150 years within the Sociology & Anthropology of Religion.

P: Any 15 points at 100 level from ANTH or SOCI, or any 60 points at 100 level from the Schedule V of the BA.

R: SOCI 278, SOCI 292, SOCI 392 in 2012

EQ: SOCI 278

ANTH298-21S2 (C) Semester 2**ANTH 301 Doing Ethnography: Concepts and Practices**

30 Points 0.2500 EFTS

This course explores the double meaning of ethnography in socio-cultural anthropology as the product of research and writing and as the process of fieldwork.

P: Any 30 points at 200 level from ANTH or SOCI, or any 60 points at 200 level from the Schedule V of the BA.

R: SOCI 353

EQ: SOCI 353

ANTH301-21S2 (C) Semester 2**ANTH 312 Kinship and Family in Comparative Perspective**

30 Points 0.2500 EFTS

This course focuses on the importance and nature of family and kinship in the construction and maintenance of social relations by individuals as well as groups, in a variety of ethnographic contexts.

P: Any 30 points at 200 level from ANTH or SOCI, or any 60 points at 200 level from the Schedule V of the BA.

R: ANTH 212, GEND 218, GEND 318, SOCI 212, SOCI 312

EQ: SOCI 312

ANTH312-21S1 (C) Semester 1**ANTH 388 Contested Heritage: Politics, Power and Practice**

30 Points 0.2500 EFTS

This course provides students with a hands-on introduction to the study of heritage. We explore ways we might understand and interpret contemporary heritage practices in a range of contexts, including post-earthquake Christchurch.

P: Any 30 points at 200 level from ANTH or SOCI, or any 60 points at 200 level from the Schedule V of the BA.

R: SOCI 388

EQ: SOCI 388

ANTH388-21S1 (C) Semester 1**PACE 395 Internship**

30 Points 0.2500 EFTS

What can you do with your major? With your degree? The purpose of the internship course is to explore both the ideological and practical assumptions guiding this question. The course is designed to be a critical, theoretical and "real-world" examination of the practices and ideologies inherent in both community and business organisations. You will apply the analytical skills acquired through your major, and through class seminars and readings, to a project designed by a local company or community group. Please check out the website for further information and specific project descriptions: www.arts.canterbury.ac.nz/internships

P: 150 points, special application and interview, and permission of the Internship Director.

R: ARTS 395

EQ: ARTS 395

PACE395-20SU2 (C) Summer (Nov 20)**PACE395-21A (C) Starts Anytime****PACE395-21S1 (C) Semester 1****PACE395-21S2 (C) Semester 2**

Limited entry. See limitation of entry regulations. A student will be selected for a specific project. Only students accepted for projects will be allowed into the course. Please go to <http://www.arts.canterbury.ac.nz/internships> for more information.

Tāura | Postgraduate

Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.

ANTH 401 Research Methodology and Ethical Controversies in Anthropology

30 Points 0.2500 EFTS

This course is designed to provide students with an introduction to anthropological research and its various fieldwork methods, and to enable students to put these into practice. Each student, assisted by a supervisor, is required to select a research problem or topic, carry out required background reading, formulate appropriate research questions, choose or design methods appropriate to obtaining the data required to answer the questions, write a research proposal and an ethics proposal, carry out the research, present a progress report, and finally to analyse the material collected and write a final report detailing the research process and the results obtained, making reference to appropriate anthropological literature. This course is compulsory for students wanting to enrol in the Anthropology Honours programme. The course also provides preparation for entry into the M.A. (Anthropology) programme, for students wishing to progress to Masters by research thesis after completing the Honours degree.

P: Subject to approval of the Head of Department.

ANTH401-21S2 (C) Semester 2**ANTH 402 Issues and Debates in Contemporary Anthropology**

30 Points 0.2500 EFTS

This course addresses selected, current issues and debates of a theoretical, methodological and interpretative nature. This course is compulsory for students wanting to enrol in the Anthropology Honours programme.

P: Subject to approval of the Head of Department.

ANTH402-21S1 (C) Semester 1**ANTH 650 MA Dissertation**

60 Points 0.5000 EFTS

MA Dissertation

P: Subject to approval of the Head of Department.

ANTH650-21S1 (C) Semester 1**ANTH650-21S2 (C) Semester 2**

Part-time enrolment (0.65 EFTS) is available on approval.

ANTH 690 MA Thesis

120 Points 1.0000 EFTS

P: Subject to approval of the Head of Department.

ANTH690-21A (C) Starts Anytime

Part-time enrolment (0.65 EFTS) is available on approval.

ANTH 790 Anthropology PhD

120 Points 1.0000 EFTS

P: Subject to approval of the Anthropology Programme Director.

ANTH790-21A (C) Starts Anytime

Part-time enrolment (0.65 EFTS) is available on approval. *From 1 January 2008, international students who are residing in New Zealand on a NZ Immigration Study Visa pay the Domestic Fee for this course. International fees apply for all other courses.

Applied Psychology**Department of Psychology**

Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.

APSY 601 Employee Recruitment, Selection and Induction

30 Points 0.2500 EFTS

The focus is on research and measurement problems as well as practical work and applications within the field of job analysis, and employee recruitment, selection and induction.

P: Subject to approval of the Head of Department.

APSY601-21W (D) Whole Year (S1 and S2)

Limited entry. See limitation of entry regulations.

APSY 612 Performance Management and Appraisal

15 Points 0.1250 EFTS

This course will focus on the theory and application of performance management research. Considerable attention will be given to the development of performance management systems in organisations. Topics such as criterion theory and development, performance appraisal methods, feedback, job evaluation and reward systems will be discussed.

P: Entry is subject to approval of the Head of Department

APSY612-21S2 (D) Semester 2

Limited entry. See limitation of entry regulations.

APSY 614 Leadership and Motivation in Organisations

15 Points 0.1250 EFTS

The aim of this course is to familiarise students with the domain and scope of practice of leadership and motivation in organisations. Classic and contemporary theories and research are outlined and discussed, highlighting their contributions and limitations in occupational settings. The leadership topics covered span trait and behavioural theories, values-based leadership frameworks, and their implications to organisational dynamics and success. Motivation topics include needs- and process-based theories, and how insights from each of these theories contribute to increasing and sustaining motivation at work.

P: Subject to approval of the Head of Department

APSY614-21S1 (D) Semester 1

Limited entry. See limitation of entry regulations.

APSY 615 Organisational Development

15 Points 0.1250 EFTS

This course focuses on a number of work related attitudes (e.g., organisational commitment, group cohesion, job satisfaction etc), theories that attempt to explain how these attitudes are related to organisational problems, the instruments that have been developed for their measurement, and how organisational development can change organisational attitudes and deal with problems. Organisational problems such as absenteeism, turnover, and safety, are a particular focus.

P: Subject to approval of the Head of Department

APSY615-21S2 (D) Semester 2

Limited entry. See limitation of entry regulations.

APSY 617 Industrial and Organisational Psychology Measurement Issues

15 Points 0.1250 EFTS

The objective of this course is to introduce and expand on measurement issues relevant within the field of Industrial and Organisational Psychology. Particular emphasis is placed on scale development, reliability analysis, validity assessment techniques, common method variance issues, measurement bias issues, design issues, classical test theory. Critical thinking, relation of theory to practice, as well as reflection, both oral and written, will be strongly emphasized.

P: Subject to approval of the Head of Department

APSY617-21S2 (D) Semester 2

Limited entry. See limitation of entry regulations.

APSY 618 Organisational Change: Directions for I/O Psychology Practice

15 Points 0.1250 EFTS

The first course objective is to familiarise the students with frameworks and research (e.g., leadership, motivation, training, and individual differences) that inform organisational change planning and implementation. The second course objective is to provide students with the knowledge and competencies to: a) critically analyse organisational change practices, b) identify challenges faced by change leaders and employees, and c) facilitate organisational change implementation as I/O practitioners. Topics covered include psychological mechanisms of change resistance and readiness, change leadership, and training for changing organisations.

P: Subject to approval of the Head of Department

APSY618-21S1 (C) Semester 1

Limited entry. See limitation of entry regulations.

APSY 619 Psychology of Stress, Health, and Wellbeing at Work

15 Points 0.1250 EFTS

This course focuses on stress, health, and wellbeing at work. The course will provide an overview of recent research on how to create psychologically healthy workplaces. It provides students with a framework for analysing how stress, health, and wellbeing at work impact on individuals and organisations. The course also focuses on how I/O psychology can contribute to solving problems related to stress, health, and wellbeing at work. Critical thinking, relating theory to practice, and relating new concepts to old theories, as well as critical reflection and discussion, both oral and written, will be strongly emphasised.

P: Subject to approval of the Head of Department

APSY619-21S1 (D) Semester 1

Limited entry. See limitation of entry regulations.

APSY 660 Dissertation

90 Points 0.7500 EFTS

A supervised research dissertation. Candidates enrolled for APSY660 Dissertation must present a dissertation to the Postgraduate Office no later than 1 February of the year following enrolment in the course.

P: Subject to the approval of the Head of Department.

APSY660-21A (C) Starts Anytime

Limited entry. See limitation of entry regulations.

APSY 790 Applied Psychology PhD

120 Points 1.0000 EFTS

P: Subject to approval of the Head of Department

APSY790-21A (C) Starts Anytime

Part-time enrolment (0.65 EFTS) is available on approval. *From 1 January 2008, international students who are residing in New Zealand on a NZ Immigration Study Visa pay the Domestic Fee for this course. International fees apply for all other courses.

Architectural Engineering

Department of Civil and Natural Resources Engineering

Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.

ENAE 601 Whole Building Behaviour and Performance

15 Points 0.1250 EFTS

Building performance and its relationship to design, construction, occupant behaviour and the environment. Building performance regulations and the regulatory environment. Failure, success and value of building projects. Building performance assessment. Roles and responsibilities and liabilities. Collaborative and communication with project stakeholders.

P: Subject to approval of the Head of Department

ENAE601-21S1 (C) Semester 1**ENAE601-21X2 (C)****ENAE 602 Collaborative Building Design Studio**

15 Points 0.1250 EFTS

Collaborative design of buildings and the use of digital tools. Creativity, communication and coordination in multidisciplinary design teams. Building information modelling strategies. Holistic approaches to building design.

P: Subject to approval of the Head of Department.

ENAE602-21S1 (C) Semester 1**ENAE602-21X2 (C)****ENAE 603 Structural Design Practice**

15 Points 0.1250 EFTS

Application of structural engineering principles and methods to the professional practice of structural design. Initiating and managing structural design projects. Concept, preliminary and developed structural design. Detailing and design for construction. Design for safety and sustainability.

P: Subject to approval of the Head of Department

ENAE603-21X2 (C)**ENAE 604 Structural Assessment and Retrofit**

15 Points 0.1250 EFTS

Structural damage and deterioration forensics. Seismic assessment procedures. Strengthening and structural retrofit design strategies and practice. Case studies of damaged and undamaged residential, commercial and industrial buildings.

P: Subject to approval of the Head of Department

ENAE604-21X2 (C)**ENAE 605 Sustainable Building Design Practice**

15 Points 0.1250 EFTS

Sustainable building design philosophy, strategies and practice. Materials, water, airflow and energy in buildings. High-performance, low energy buildings. Building performance simulation. Coordination and integration with other building design disciplines.

P: Subject to approval of the Head of Department

ENAE605-21S1 (C) Semester 1**ENAE605-21S2 (C) Semester 2****ENAE 606 Building Modelling and Integrated Design**

15 Points 0.1250 EFTS

Digital methods for modelling, designing, simulating and visualising buildings. Application of digital methods for developing integrated solutions to complex building design and construction challenges.

P: Subject to approval of the Head of Department

ENAE606-21S1 (C) Semester 1**ENAE606-21S2 (C) Semester 2****ENAE 609 Building Envelope Design and Engineering**

15 Points 0.1250 EFTS

Building envelope design philosophy, strategies and practice. Heat, light and airflow through envelopes. Form, function, performance and value of facades. High-performance envelopes for resilient and sustainable buildings.

P: Subject to approval of the Head of Department

ENAE609-21S1 (C) Semester 1**ENAE609-21S2 (C) Semester 2**

ENAE 610 Building Sustainability Assessment

15 Points 0.1250 EFTS

Building sustainability performance metrics. Modelling, measurement and survey methods for sustainability assessment and rating of buildings. Design, management and operational strategies for improving building sustainability.

P: Subject to approval of the Head of Department

ENAE610-21S1 (C) Semester 1**ENAE 620 Integrated Building Design Project**

15 Points 0.1250 EFTS

Research for innovative building designs. Case studies of integrated building design solutions. Individual and team research and design projects.

P: Subject to approval of the Head of Department

ENAE620-21S1 (C) Semester 1**ENAE620-21S2 (C) Semester 2**

Art Curatorship

School of Humanities and Creative Arts

Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.

ARTC 401 Practicum

30 Points 0.2500 EFTS

This course provides students with practical experience of working for a museum, gallery, library or archive-related institution, under the supervision of a staff member there.

P: Subject to approval of the Head of Department.

ARTC401-21A (C) Starts Anytime**ARTC401-21S1 (C) Semester 1****ARTC401-21S2 (C) Semester 2****ARTC 402 Never Neutral: Museums in Context**

30 Points 0.2500 EFTS

A critical exploration of the history and theory of museums, examining some of the political and social contexts that determine their development, and the meanings and narratives constructed through practices of collecting and display.

P: Subject to approval of the Head of Department.

R: ARTH 417, CULT 406

EQ: ARTH 417

ARTC402-21S1 (C) Semester 1**ARTC 404 Special Project**

30 Points 0.2500 EFTS

The Special Project allows students to explore a topic associated with curatorial studies in depth, while working under the supervision of a member of academic staff.

P: Subject to approval of the Head of Department.

ARTC404-21A (C) Starts Anytime**ARTC404-21S1 (C) Semester 1****ARTC404-21S2 (C) Semester 2**

Art History and Theory

*School of Humanities and Creative Arts***ARTH 103 'Picasso who?' Introducing Modern Art**

15 Points 0.1250 EFTS

What makes modern art modern? This course covers all you've always wanted to know about modern art and never dared asking. This course offers a general introduction to modern art from 1850 to 1945. It examines key art movements from Impressionism to Surrealism in their cultural and social contexts while introducing you to art historical methodologies and key art theories.

ARTH103-20SU2 (D) Summer (Nov 20)**ARTH103-21S1 (C) Semester 1****ARTH103-21S1 (D) Semester 1****ARTH 111 Contextualising Art: An Introduction to Art Theory**

15 Points 0.1250 EFTS

A study of theories of art through central texts, from the 18th century to the present day.

R: ARTT 101

ARTH111-21S2 (C) Semester 2**ARTH 202 Art and Revolution**

15 Points 0.1250 EFTS

This course explores the relationship between art and a particularly eventful and transformative period in European history, from c.1750 to c.1850.

P: Any 15 points at 100 level from ARTH, or 60 points at 100 level from the Schedule V of the BA.

ARTH202-21S2 (C) Semester 2**ARTH 210 Japanese Art**

15 Points 0.1250 EFTS

This course presents an introduction to the arts of Japan, with a particular focus on the art of the fifteenth and sixteenth centuries.

P: Any 15 points at 100 level from ARTH, or 60 points at 100 level from the Schedule V of the BA.

ARTH210-21S1 (C) Semester 1**ARTH 211 Theory of Criticism**

15 Points 0.1250 EFTS

This course examines the history, theory and practice of writing about visual art.

P: Any 15 points at 100 level from ARTH, or 60 points at 100 level from the Schedule V of the BA.

R: ARTT 202

ARTH211-21S1 (C) Semester 1**ARTH 215 International Contemporary Art**

15 Points 0.1250 EFTS

This course provides an introduction to international contemporary art, focusing on developments in Europe, the USA and New Zealand since 1945. After looking at mid-twentieth-century tendencies such as Minimalism, Conceptual Art and Land Art, the course turns to consider some of the broader trajectories of contemporary art practice and criticism in the late twentieth and early twenty-first centuries.

P: Any 15 points at 100 level from ARTH, or 60 points at 100 level from the Schedule V of the BA.

R: ARTT 102, ARTH 109

ARTH215-21S2 (C) Semester 2**ARTH 216 Greek Art: The Power of Images in Archaic and Classical Greece**

15 Points 0.1250 EFTS

We focus on the brilliant achievements of the Greeks in architecture, figurative painting, sculpture and other media that have been influential for centuries. We see what these meant in their broader cultural context, including Greek myth and history, as well as Greek interaction with cultures of Egypt and the Middle East. Students in this course have a chance to work directly with the splendid artefacts from the James Logie Memorial Collection (including Greek vases) now housed in the Teece Museum.

P: Any 15 points at 100 level from ARTH or CLAS, or 60 points at 100 level from the Schedule V of the BA.

R: CLAS 206, CLAS 336

EQ: CLAS 206

ARTH216-21S2 (A) Semester 2**ARTH 217 Kiwi Icons: Introduction to Art in Aotearoa New Zealand**

15 Points 0.1250 EFTS

In this course, art histories in Aotearoa New Zealand are explored through looking at a range of works deriving from Māori, Pākehā, and Pacific traditions. These paintings, sculptures, and buildings have been selected for their rich entanglements with debates around art, culture, and society, and the course links these works and their creators with broader contexts, both in Aotearoa New Zealand and overseas.

P: Any 15 points at 100 level from ARTH, or 60 points at 100 level from the Schedule V of the BA.

R: ARTH 110

ARTH217-20SU2 (A) Summer (Nov 20)**ARTH 328 Art of the Floating World**

30 Points 0.2500 EFTS

This course studies ukiyo-e, Art of the Floating World, which was produced in Japan from the seventeenth century to the nineteenth century.

P: Any 30 points at 200 level from ARTH, or any 60 points at 200 level from the Schedule V of the BA or from the BFA.

ARTH328-21S2 (C) Semester 2**ARTH 329 In search of Nowhere: the international Arts and Crafts Movement**

30 Points 0.2500 EFTS

A detailed introduction to the Arts and Crafts Movement, one of the most interdisciplinary, international, and influential artistic phenomena in history.

P: Any 30 points at 200 level from ARTH, or any 60 points at 200 level from the Schedule V of the BA or from the BFA.

ARTH329-21S2 (C) Semester 2

ARTH 330 Medium and Materiality in Contemporary Art

30 Points 0.2500 EFTS

This course will examine medium and materiality across a range of contemporary art practices, focusing in particular on the shift from modernist notions of medium purity to the radical fracturing and opening up of medium that has taken place since the 1970s.

P: Any 30 points at 200 level from ARTH, or any 60 points at 200 level from the Schedule V of the BA or from the BFA.

RP: ARTH 215 International Contemporary Art

ARTH330-21S1 (C) Semester 1

PACE 395 Internship

30 Points 0.2500 EFTS

What can you do with your major? With your degree? The purpose of the internship course is to explore both the ideological and practical assumptions guiding this question. The course is designed to be a critical, theoretical and "real-world" examination of the practices and ideologies inherent in both community and business organisations. You will apply the analytical skills acquired through your major, and through class seminars and readings, to a project designed by a local company or community group. Please check out the website for further information and specific project descriptions: www.arts.canterbury.ac.nz/internships

P: 150 points, special application and interview, and permission of the Internship Director.

R: ARTS 395

EQ: ARTS 395

PACE395-20SU2 (C) Summer (Nov 20)

PACE395-21A (C) Starts Anytime

PACE395-21S1 (C) Semester 1

PACE395-21S2 (C) Semester 2

Limited entry. See limitation of entry regulations. A student will be selected for a specific project. Only students accepted for projects will be allowed into the course. Please go to <http://www.arts.canterbury.ac.nz/internships> for more information.

Art History

School of Humanities and Creative Arts

Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.

ARTH 417 Never Neutral: Museums in Context

30 Points 0.2500 EFTS

A critical exploration of the history and theory of museums, examining some of the political and social contexts that determine their development, and the meanings and narratives constructed through practices of collecting and display.

P: Subject to approval of the Head of Department.

R: CULT 406 and ARTC 402

EQ: ARTC 402

ARTH417-21S1 (C) Semester 1

ARTH 480 Research Paper

30 Points 0.2500 EFTS

This course requires students to work on a supervised research project leading to the presentation of a long essay of approximately 10,000 words.

P: Subject to approval of the Head of Department.

ARTH480-21S1 (C) Semester 1

ARTH480-21S2 (C) Semester 2

ARTH 650 MA Dissertation

60 Points 0.5000 EFTS

MA Dissertation

P: Subject to approval of the Head of Department.

ARTH650-21A (C) Starts Anytime

ARTH650-21S1 (C) Semester 1

ARTH650-21S2 (C) Semester 2

ARTH 690 MA Thesis

120 Points 1.0000 EFTS

P: Subject to approval of the Head of Department.

ARTH690-21A (C) Starts Anytime

Part-time enrolment (0.65 EFTS) is available on approval.

ARTH 790 Art History PhD

120 Points 1.0000 EFTS

P: Subject to approval of the Programme Convenor.

ARTH790-21A (C) Starts Anytime

Part-time enrolment (0.65 EFTS) is available on approval. *From 1 January 2008, international students who are residing in New Zealand on a NZ Immigration Study Visa pay the Domestic Fee for this course. International fees apply for all other courses.

Art Theory

School of Humanities and Creative Arts

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ARTT 690 MA Thesis

120 Points 1.0000 EFTS

P: Subject to approval of the Programme Convenor.

ARTT690-21A (C) Starts Anytime

Part-time enrolment (0.65 EFTS) is available on approval.

ARTT 790 Art Theory PhD

120 Points 1.0000 EFTS

P: Subject to approval of the Programme Convenor.

ARTT790-21A (C) Starts Anytime

Part-time enrolment (0.65 EFTS) is available on approval. *From 1 January 2008, international students who are residing in New Zealand on a NZ Immigration Study Visa pay the Domestic Fee for this course. International fees apply for all other courses.

Arts

College of Arts**ARTS 401 Arts Research and Scholarship: Introduction to Theories and Methods**

30 Points 0.2500 EFTS

This course will prepare students to carry out original research by an exploration of methods and epistemologies of research across Arts disciplines, including Kaupapa Ma'ori approaches. It will provide students with a broad suite of essential postgraduate research skills, with a particular emphasis on research methods common to the humanities and social sciences. It will have a strongly practical focus.

P: Permission of the Head of Department.

ARTS401-21S1 (C) Semester 1

Astronomy

School of Physical and Chemical Sciences**ASTR 109 The Cosmos: Birth and Evolution**

15 Points 0.1250 EFTS

ASTR109 / PHYS 109 will take you on a grand tour of the universe! We will survey a range of topics in Astronomy, Astrophysics and Cosmology beginning with the denizens of our solar system and expanding outward to visit exotic stars and distant galaxies. During the journey we will learn about how the universe works and will highlight the key discoveries that have led us to this understanding.

R: (1) PHYS 109. (2) Students who have been credited with ASTR 112 cannot subsequently be credited with ASTR 109.

EQ: PHYS 109

ASTR109-21S1 (C) Semester 1

ASTR109-21S1 (D) Semester 1

ASTR 112 Astrophysics

15 Points 0.1250 EFTS

A general descriptive introduction to modern astrophysics: the Sun and stars, the Galaxy, extragalactic systems and cosmology.

ASTR112-21S1 (C) Semester 1

ASTR 211 Observational Astronomy

15 Points 0.1250 EFTS

A very hands-on course, with the participation of students in tutorials and all of the assessment by way of practical assignments. The syllabus will include: telescopes, CCDs, filters, general image processing methods, astrometry, coordinate systems, time photometry and spectroscopy. Students will also be exposed to astronomy research, including a field trip to the University of Canterbury Mt. John Observatory where students are expected to carry out their own projects.

P: (1) ASTR 112; and (2) COSC 131 or COSC 121.

R: ASTR 231

RP: PHYS 285

ASTR211-21S2 (C) Semester 2

Offered in odd-numbered years.

ASTR 231 Observational Astronomy

30 Points 0.2500 EFTS

A very hands-on course, with the participation of students in tutorials and all of the assessment by way of practical assignments. The syllabus will include: telescopes, CCDs, filters, general image processing methods, astrometry, coordinate systems, time photometry and spectroscopy. Students will also be exposed to astronomy research, including a field trip to the University of Canterbury Mt. John Observatory where students are expected to carry out their own projects.

P: Subject to approval of the Head of Department.

R: ASTR 211

ASTR231-20SU2 (C) Summer (Nov 20)**ASTR 323 Stellar Structure and Evolution**

15 Points 0.1250 EFTS

The physics governing stellar structure, a descriptive approach to stellar evolution, and related topics.

P: (1) 30 points from PHYS 203-206, ASTR 211-212; and (2) MATH 103 or MATH 109 or EMTH 119 or MATH 201.

R: PHYS 323, ASTR 423

EQ: PHYS 323

ASTR323-21S2 (C) Semester 2*Offered in odd-numbered years.***ASTR 332 Theoretical and Observational Cosmology**

15 Points 0.1250 EFTS

This course is an account of modern cosmology. It will include a discussion on the large scale homogenous and isotropic nature of the Universe and how the Universe is expanding with time. This will be followed by a brief review of the aspects of General Relativity that we will need in the course. After that, we will discuss the constituents of the Universe and how the expansion of the Universe has changed over time. The apparent accelerating expansion of the Universe and the proposed dark energy explanation for it will also be discussed. The evidence for dark matter and what properties it appears to have will be reviewed. We will use the Boltzmann equation to understand big bang nuclear synthesis and the cosmic microwave background. These are two of the main observational pillars of the big bang model of the Universe. The Boltzmann equation will be used to study a thermal relic model of dark matter. We will then go on to study the inhomogeneity of large scale structure such as galaxies, galaxy clusters and the cosmic web. The anisotropies in the cosmic microwave background will be analysed. We will see how observations of both of these phenomena can allow us to tightly constrain many properties of the Universe. Pre-requisites - additional info: Prior astronomy courses would be useful but are not essential as we will cover any needed subjects during the course.

P: (1) PHYS 205 and PHYS 203; and (2) MATH 103 or MATH 109 or EMTH 119 or MATH 201.

R: ASTR 422, ASTR 322

RP: MATH 202

ASTR332-21S1 (C) Semester 1*Offered in odd-numbered years.***ASTR 381 Advanced Experiments in Physics and Astronomy**

15 Points 0.1250 EFTS

Execution and write-up of selected laboratory experiments.

P: (1) PHYS 285; (2) 30 points from PHYS 201-206 including either PHYS 202 or PHYS 205). (3) MATH 103 or EMTH 119 or MATH 201.

R: PHYS 381

RP: MATH 201

EQ: PHYS 381

ASTR381-21S2 (C) Semester 2*This course is normally taken in Semester 2. Entry for SU2 or S1 will only be granted by the HOD in exceptional circumstances.***ASTR 391 Introductory Astronomy Research**

15 Points 0.1250 EFTS

150 hours of research undertaken with the supervision of an active researcher. To be assessed with an oral presentation 20%, and a short written report 80%. This course may be started at any time with the agreement of the HOD. Note that start and end dates may affect entitlement to Studylink support.

P: (1) MATH 103 or MATH 109 or equivalent (2) 44 points from PHYS 200 or ASTR 200 (3) Entry subject to a supervisor approved by the Head of Department, being available

R: ASTR 392, ASTR 393

ASTR391-20SU2 (C) Summer (Nov 20)**ASTR391-21S1 (C) Semester 1****ASTR391-21S2 (C) Semester 2**

1. This course cannot be credited to the 56 points of 300 level ASTR required for ASTR major. 2. Entry subject to a supervisor being approved by the HOD being available.

Tāura | Tāura | Postgraduate

Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.

ASTR 422 Theoretical and Observational Cosmology

15 Points 0.1250 EFTS

P: Subject to approval of the Head of Department. Prior astronomy courses would be useful but are not essential as we will cover any needed subjects during the course.

R: ASTR 332

ASTR422-21S1 (C) Semester 1**ASTR 423 Stellar Structure and Evolution**

15 Points 0.1250 EFTS

P: Subject to approval of the Head of Department.

R: ASTR 323

ASTR423-21S2 (C) Semester 2*Offered in odd-numbered years.***ASTR 425 The Structure and Evolution of Galaxies**

15 Points 0.1250 EFTS

This course will give a thorough grounding in the physics of galaxies, covering galactic structure, dynamics, stellar populations, the Local Group, spiral galaxies, elliptical galaxies, galactic formation, galactic distribution and large-scale structure.

P: Subject to approval of the Head of Department.

R: ASTR 325, PHYS 325

RP: ASTR 112, ASTR 211 or ASTR 212, 33 points from PHYS 221-224

ASTR425-21S1 (C) Semester 1*Offered in even-numbered years.***ASTR 430 Astronomy Literature Review**

15 Points 0.1250 EFTS

Students should consult the Postgraduate Diploma in Science Regulations for further requirements.

P: Subject to approval of the Head of Department.

ASTR430-21S1 (C) Semester 1**ASTR430-21W (C) Whole Year (S1 and S2)****ASTR430-21S2 (C) Semester 2****ASTR 480 Astronomy Research Project**

30 Points 0.2500 EFTS

An independent research project in Astronomy for 400-level students.

P: Subject to approval of the Head of Department

ASTR480-21A (C) Starts Anytime**ASTR 690 MSc Thesis**

120 Points 1.0000 EFTS

P: Subject to approval of the Head of Department.

ASTR690-21A (C) Starts Anytime*Part-time enrolment (0.65 EFTS) is available on approval.***ASTR 790 Astronomy PhD**

120 Points 1.0000 EFTS

P: Subject to approval of the Head of Department.

ASTR790-21A (C) Starts Anytime

*Part-time enrolment (0.65 EFTS) is available on approval. *From 1 January 2008, international students who are residing in New Zealand on a NZ Immigration Study Visa pay the Domestic Fee for this course. International fees apply for all other courses.*

Audiology**Department of Communication Disorders**

Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.

HEAR 651 Foundation Topics in Audiology

15 Points 0.1250 EFTS

Basic principles of acoustics, psychoacoustics, and the anatomy and physiology of the peripheral auditory system.

P: Approval of the Head of Department.

RP: BSc, BSLP (Hons)

HEAR651-21S1 (C) Semester 1

HEAR 652 Diagnostic Audiological Evaluation

15 Points 0.1250 EFTS

Introduction to the diagnosis of hearing impairment, with a focus on diagnostics in adults.

P: Approval of the Head of Department.

RP: BSc, BSLP (Hons)

HEAR652-21S1 (C) Semester 1**HEAR 653 Audiological Rehabilitation**

15 Points 0.1250 EFTS

Introduction to the management of hearing impairment, with a focus on management in adults.

P: Approval of the Head of Department.

RP: BSc, BSLP (Hons)

HEAR653-21S1 (C) Semester 1**HEAR 654 Clinical Practicum I**

30 Points 0.2500 EFTS

This course puts into practice the information acquired in the academic courses in the clinical setting. The first half of the year is primarily focused on developing skills for adult diagnostic assessment, while the second half of the year focuses on developing skills for paediatric diagnostic assessment, and adult and paediatric habilitation.

P: Approval of the Head of Department.

RP: BSc, BSLP (Hons)

HEAR654-21X (C) 15 Feb 2021 - 13 Feb 2022**HEAR 655 Advanced Topics in Audiology**

15 Points 0.1250 EFTS

Principles of communication and development of the auditory system, auditory processing disorders, vestibular disorders and medical-based audiology

P: Approval of the Head of School, HEAR 651.

RP: BSc, BSLP (Hons)

HEAR655-21S2 (C) Semester 2**HEAR 656 Advanced Diagnostic Audiological Evaluation**

15 Points 0.1250 EFTS

Further study in the diagnosis of hearing impairment, with a focus on objective assessment techniques and diagnosis in children. The course also includes research design, methodology, data analysis and interpretation in communication disorders.

P: Approval of the Head of School, HEAR 652.

RP: BSc, BSLP (Hons)

HEAR656-21S2 (C) Semester 2**HEAR 657 Advanced Audiological Rehabilitation**

15 Points 0.1250 EFTS

Further study in the management of hearing impairment, with a focus on management in children, and cochlear implants.

P: Approval of the Head of School, HEAR 653.

RP: BSc, BSLP (Hons)

HEAR657-21S2 (C) Semester 2**HEAR 658 Clinical Practicum II**

30 Points 0.2500 EFTS

This course puts into practice the information acquired on the academic courses in the clinical setting. It builds on the diagnostic and habilitative skills learned on the first year of the MAud programme, with a growing emphasis on building holistic approaches to audiological case management and understanding how these fit into the broader health system.

P: Approval of the Head of School, HEAR 654.

RP: BSc, BSLP (Hons)

HEAR658-21X (C) 15 Feb 2021 - 13 Feb 2022**HEAR 663 Audiologic Assessment and Management**

15 Points 0.1250 EFTS

This course provides students with foundational knowledge in audiology and of the role of the audiologist in the diagnosis and management of hearing and balance disorders, as well as a thorough understanding of how to develop and implement aural rehabilitation plans for children and adults and their family members. Skills acquired include competence in hearing screening audiometry and the interpretation of basic audiometric data in paediatric and adult audiology.

R: HEAR 243

HEAR663-21S1 (C) Semester 1

Limited entry. See limitation of entry regulations.

HEAR 690 Audiology Thesis

90 Points 0.7500 EFTS

Thesis to be carried out under the guidance of a supervisor. The thesis is to embody the results obtained by the student in an investigation into an area of clinical audiology.

P: Approval of the Head of School.

RP: BSc, BSLP (Hons)

HEAR690-21A (C) Starts Anytime

Part-time enrolment (0.4875 EFTS) is available on approval.

HEAR 795 Audiology PhD

120 Points 1.0000 EFTS

P: Entry subject to the approval of the Head of School.

HEAR795-21A (C) Starts Anytime

Part-time enrolment (0.65 EFTS) is available on approval. *From 1 January 2008, international students who are residing in New Zealand on a NZ Immigration Study Visa pay the Domestic Fee for this course. International fees apply for all other courses.

Bicultural Co-Governance

School of Earth and Environment

Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.

BCNR 691 Co-governance Research Project

60 Points 0.5000 EFTS

P: Subject to the approval of the Head of School

BCNR691-21S2 (C) Semester 2

Biochemistry

School of Physical and Chemical Sciences**BCHM 111 Cellular Biology and Biochemistry**

15 Points 0.1250 EFTS

A foundation course in cellular biology integrating the principles of molecular biology and biochemistry with the structure and function of plant, animal and microbial cells. Cellular and molecular mechanisms underlying cell growth/death cycles, cancer and genetic disorders will also be considered.

R: BIOL 111 and ENCH 281

EQ: BIOL 111

BCHM111-21S1 (C) Semester 1**BCHM 112 Structure and Reactivity in Chemistry and Biochemistry**

15 Points 0.1250 EFTS

Structure, isomerism, stereochemistry, synthesis, and reaction mechanisms in organic chemistry; transition metal chemistry and electrochemistry.

P: (1) NCEA: at least 14 credits NCEA Level 3 Chemistry, or (2) CIE: at least D grade in CIE AL Chemistry or A grade in CIE ASL Chemistry, or (3) IB: at least Grade 4 in IB HL Chemistry or Grade 6 in IB SL Chemistry, or (4) CHEM 114, or at least B Grade in BRDG 023.

R: CHEM 112

EQ: CHEM 112

BCHM112-21S2 (C) Semester 2**BCHM 202 Foundations in Molecular Biology**

15 Points 0.1250 EFTS

Principles of genetics, including the structure of RNA and DNA, molecular replication, transcription, translation, recombination and gene expression.

P: BCHM 111 (BIOL 111) or ENCH 281.

R: BIOL 230, BIOL 231, ENCH 480

RP: CHEM 112 or BCHM 112 or CHEM 114

EQ: BIOL 231, ENCH 480

BCHM202-21S1 (C) Semester 1**BCHM 206 Organic Chemistry**

15 Points 0.1250 EFTS

Reaction mechanisms, synthesis and biosynthesis of organic compounds.

P: CHEM 212 or BCHM 212

R: CHEM 242

EQ: CHEM 242

BCHM206-21S2 (C) Semester 2

BCHM 212 Chemical Reactivity

15 Points 0.1250 EFTS

Structures and properties of organic and biological molecules; application of kinetics and thermodynamics to organic and biochemical reactions; substitution and elimination chemistry; bioinorganic chemistry and electrochemistry.

P: BCHM 112 (CHEM 112) or ENCH 241

R: CHEM 212

EQ: CHEM 212

BCHM212-21S1 (C) Semester 1**BCHM 222 BIOCHEMISTRY B - Metabolism; the reactions of molecules in cells**

15 Points 0.1250 EFTS

The general principles of metabolism and metabolic control.

P: BCHM 221 or BCHM 253 or BIOL 253

R: BCHM 201, ENCH 323

BCHM222-21S2 (C) Semester 2**BCHM 253 Cell Biology I**

15 Points 0.1250 EFTS

Internal organisation of the cell. The course will build on the introduction to cell biology in BCHM 111 (BIOL 111) and seek to develop further understanding of the internal workings of the cell.

P: BIOL 111 (BCHM 111) or ENCH 281.

R: BIOL 253

RP: 15 points of CHEM at 100 level

EQ: BIOL 253

BCHM253-21S1 (C) Semester 1**BCHM 281 Practical Biochemistry**

15 Points 0.1250 EFTS

This course is laboratory based and includes the following topics: preparative chemistry; purification of biochemicals and chemicals including chromatography; practical spectroscopy and basic analytical methodology; kinetic and thermodynamic measurements on solutions; data analysis, errors and Excel competence. Safety and library elements will be integrated into the course.

P: CHEM 111 or CHEM 112 (BCHM 112)

R: CHEM 281

BCHM281-21S2 (C) Semester 2**BCHM 305 Protein Science**

15 Points 0.1250 EFTS

This course is designed to help you to understand how different proteins function and how biochemists seek to investigate protein structure and function. The course aims to introduce you to modern biochemical ideas and research, and will include a substantial amount of reading from the biochemical literature, as well as from your standard textbook.

P: BCHM 253/BIOL 253 and BCHM 222.

R: BCHM 301

RP: BCHM 202/BIOL 231, BCHM 206/CHEM 242, BCHM 212/CHEM 212.

BCHM305-21S1 (C) Semester 1**BCHM 306 Biochemical Pathology**

15 Points 0.1250 EFTS

This course is designed to help you to understand the biochemistry underpinning disease (e.g. cancer), how diseases are diagnosed using biochemical markers (e.g. heart disease), mechanisms of cell and organ toxicity, and how toxic molecules can be used to our benefit (e.g. in cancer chemotherapy).

P: BCHM 253/BIOL 253 and BCHM 222, and 15 points from BCHM 206, BCHM 212/CHEM 212.

R: BCHM 301, BCHM 302

RP: BCHM 202/BIOL 231.

BCHM306-21S2 (C) Semester 2**BCHM 338 Chemical Biology and Protein Chemistry**

15 Points 0.1250 EFTS

This course covers important concepts in chemical biology: the application of chemical techniques, tools, analyses, and synthetic chemicals, to the study and manipulation of the molecular processes taking place within cells.

P: CHEM 212 or BCHM 212 Recommended preparation: BCHM 202 (BIOL 231) and/or CHEM 242 (BCHM 206)

R: CHEM 325; BCHM 302; CHEM 338

RP: BCHM 202 (BIOL 231) and/or CHEM 242 (BCHM 206)

EQ: CHEM 338

BCHM338-21S1 (C) Semester 1**BCHM 339 Bioinorganic and Bioorganic Chemistry**

15 Points 0.1250 EFTS

Bioinorganic chemistry is the study of the ways that nature uses the properties of metal ions to control and catalyse biological processes. Processes to be studied will include transport of electrons, small molecules, and essential trace elements, as well as chemical transformations

that involve redox reactions, activation of water molecules in hydrolysis reactions, and the role of metal ions in biosynthetic reactions and drug metabolism. The bioorganic chemistry portion of the course will focus on the role that small molecular weight organic compounds can play in dissecting, probing and manipulating biological systems. We will use examples from human and animal health (i.e. cancer, infection) to illustrate this interdisciplinary process.

P: CHEM 212 or BCHM 212.

R: CHEM 339; CHEM 325; BCHM 302

RP: CHEM 242 (BCHM 206)

EQ: CHEM 339

BCHM339-21S2 (C) Semester 2**BCHM 381 Biochemical Techniques**

15 Points 0.1250 EFTS

Biochemical experiments and analysis such as transport kinetics, DNA sequence analysis and manipulation, lipid isolation and characterisation. Safety, bioethical and library elements will be integrated into the coursework.

P: BCHM 201 (if taken prior to 2005) or BCHM 281 or CHEM 281

BCHM381-21S2 (C) Semester 2**Tāura | Tāura | Postgraduate**

Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.

BCHM 420 Biological Chemistry

30 Points 0.2500 EFTS

Contemporary research areas such as biologically-active organic compounds; biochemical processes; molecular recognition; bioinorganic chemistry.

P: Subject to the approval of the Head of Department

BCHM420-21W (C) Whole Year (S1 and S2)**BCHM 455 Applied and Molecular Microbiology**

15 Points 0.1250 EFTS

This course will help students develop as scholars and advance their research skills in areas of applied and molecular microbiology. With microbes being ubiquitous and ever more important to commerce, the course will offer opportunities to explore cultural and social perceptions of appropriate use of microbiological science. The course focuses on the critical evaluation of scientific evidence.

R: BIOL 493, BIOL 455

RP: BIOL 313, BIOL 333, BCHM 301/BIOL 331

EQ: BIOL 455

BCHM455-21S1 (C) Semester 1**BCHM 457 Macromolecular Evolution and Engineering**

15 Points 0.1250 EFTS

The primary goal of this course is to assist student development as scholars and advance their research skills in fields of science that use molecular evolution and molecular design (i.e. synthetic biology) to address a wide diversity of biological questions and problems. The course focuses on the critical evaluation of scientific methodology and how such methodology can be applied to engineer new biomolecules.

R: BIOL 457

RP: BIOL 331/BCHM 301 (Biochemistry 3) and/or Protein Science (BIOL 435/BCHM 403), which is designed to be a compatible course run in S1. In addition, one from the following is highly recommended: BIOL 313 (Microbiology) or BIOL 333 (Molecular Genetics) (or equivalent, as determined by course co-ordinator).

EQ: BIOL 457

BCHM457-21S2 (C) Semester 2**BCHM 459 Genomics**

15 Points 0.1250 EFTS

Students taking this course will develop a deep knowledge in a current area of genome biology and evolution. Students will get to grips with the latest research in this fast moving field, read deeply on a chosen topic, and develop strong critical thinking, writing and debating skills.

R: BIOL 430/BCHM 406/BIOL 459

EQ: BIOL 459

BCHM459-21S2 (C) Semester 2**BCHM 460 Molecular Biology**

15 Points 0.1250 EFTS

Molecular biology comprises a suite of tools and approaches for understanding the structure and function of DNA, RNA and proteins. The primary goal of this course is to assist the development of scholars with advanced technical skills in molecular biology who can use these tools to infer evolutionary and functional relationships.

R: BIOL 434/BCHM 405/BIOL 460

RP: BIOL 333, BIOL 334, BCHM 301/BIOL 331, BIOL 335

EQ: BIOL 460

BCHM460-21S1 (C) Semester 1

BCHM 461 Protein Science

15 Points

0.1250 EFTS

An advanced treatment of protein science, covering structure, function, applications, and the inter-relationships between these.

R: BIOL 435/BCHM 403/BIOL 461

EQ: BIOL 461

BCHM461-21S1 (C)**Semester 1****BCHM 462 Medical Biochemistry**

15 Points

0.1250 EFTS

The primary goal of this course is to assist student development as scholars and advance their knowledge and literature research skills in the field of Medical Biochemistry. This course will exam broad topics of medical interest where biochemical techniques have been used to examine the basis of human pathological process. The course will examine topic areas of medical research using recent peer reviewed publications. The course focuses on the critical evaluation of the research literature and evaluation of competing theories on the mechanism of selected disease pathologies.

R: BIOL 436/BCHM 401/BIOL 462

EQ: BIOL 462

BCHM462-21S2 (C)**Semester 2****BCHM 480 Project**

30 Points

0.2500 EFTS

The topic for this project shall be approved by the Course Co-ordinator and may be carried out under the supervision of staff in the Departments of Chemistry or Biological Sciences. The written report on this project must be completed and presented to the Registrar in the year in which the student presents the courses selected for BCHM 400 level and at a time determined by the department concerned.

P: Subject to approval of the Head of Department.

BCHM480-21W (C)**Whole Year (S1 and S2)****BCHM 690 MSc Thesis**

120 Points

1.0000 EFTS

P: Subject to approval of the Head of Department.

BCHM690-21A (C)**Starts Anytime**

Part-time enrolment (0.65 EFTS) is available on approval.

BCHM 790 Biochemistry PhD

120 Points

1.0000 EFTS

P: Subject to approval of the Head of Department.

BCHM790-21A (C)**Starts Anytime**

Part-time enrolment (0.65 EFTS) is available on approval. *From 1 January 2008, international students who are residing in New Zealand on a NZ Immigration Study Visa pay the Domestic Fee for this course. International fees apply for all other courses.

Bioengineering

Department of Mechanical Engineering

Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.

ENBI 690 Bioengineering ME Thesis

120 Points

1.0000 EFTS

P: Subject to approval of the Head of Department

ENBI690-21A (C)**Starts Anytime**

Part-time enrolment (0.65 EFTS) is available on approval.

ENBI 790 Bioengineering PhD

120 Points

1.0000 EFTS

P: Subject to the approval of the Head of Department

ENBI790-21A (C)**Starts Anytime**

Part-time enrolment (0.65 EFTS) is available on approval. *From 1 January 2008, international students who are residing in New Zealand on a NZ Immigration Study Visa pay the Domestic Fee for this course. International fees apply for all other courses.

Biological Sciences

School of Biological Sciences

BIOL 111 Cellular Biology and Biochemistry

15 Points

0.1250 EFTS

A foundation course in cellular biology integrating the principles of molecular biology and biochemistry with the structure and function of plant, animal and microbial cells. Cellular and molecular mechanisms underlying cell growth/death cycles, cancer and genetic disorders will also be considered.

R: ENCH 281 and BCHM 111

EQ: BCHM 111

BIOL111-21S1 (C)**Semester 1****BIOL 112 Ecology, Evolution and Conservation**

15 Points

0.1250 EFTS

An integrated course embracing the principles of ecology, behaviour, genetics, evolution and conservation biology.

BIOL112-21S2 (C)**Semester 2**

Fieldwork is required.

BIOL 113 Diversity of Life

15 Points

0.1250 EFTS

An overview of the diversity, evolution, structure and function of animals, plants and microbes.

BIOL113-21S1 (C)**Semester 1****BIOL 116 Human Biology**

15 Points

0.1250 EFTS

An introduction to the biology of humans. The course is particularly recommended for students wishing to advance in topics in health and sport, as well as those students advancing in science subjects.

BIOL116-21S2 (C)**Semester 2****BIOL 209 Biological Data Analysis**

15 Points

0.1250 EFTS

Introductory statistics with specific examples for biologists. This course is required for all students in BIOL.

P: STAT 101 or 15 points of 100 level MATH

BIOL209-21S1 (C)**Semester 1****BIOL 210 Vertebrate Biology**

15 Points

0.1250 EFTS

The comparative anatomy, general biology, ecology, physiology and evolutionary history of the vertebrates.

P: BIOL 113

BIOL210-21S2 (C)**Semester 2****BIOL 212 Marine Biology and Ecology**

15 Points

0.1250 EFTS

An introduction to the ecology and biology of the marine environment. Description and analysis of marine communities and the biodiversity, ecology and behaviour of marine organisms.

P: BIOL 112 and BIOL 113

BIOL212-21S1 (C)**Semester 1**

Fieldwork is required.

BIOL 213 Microbiology

15 Points

0.1250 EFTS

An introduction to the fundamental principles of microbiology and microbial genetics.

P: BIOL 111 or BIOL 113.

RP: BIOL 231/BCHM 202

BIOL213-21S2 (C)**Semester 2****BIOL 215 Origins and Classification of Life**

15 Points

0.1250 EFTS

This course takes a broad view of the ways biological diversity can be described and classified, and its origins understood. Systematics is the scientific discipline that encompasses the description, identification, nomenclature, and classification of organisms (Taxonomy) and the reconstruction of their macro-evolutionary history (Phylogenetics). Knowing the identity and evolutionary relationships of organisms is crucial to any biological study, but functional classifications are also important. This course is an introduction to the methodology and principles of systematics across all forms of biodiversity (bacteria, plants, fungi, protists,

Biological Sciences

and animals), from morphological to next-generation DNA-based approaches and including functional methods.

P: BIOL 113 (

RP: BIOL 111 & BIOL 112

BIOL215-21S2 (C) Semester 2

BIOL 231 Foundations in Molecular Biology

15 Points 0.1250 EFTS

Principles of genetics, including the structure of RNA and DNA, molecular replication, transcription, translation, recombination and gene expression.

P: BIOL 111 (=BCHM 111) or ENCH 281

R: BCHM 202, ENCH 480, BIOL 230

EQ: BCHM 202, ENCH 480

BIOL231-21S1 (C) Semester 1

BIOL 250 Principles of Animal Physiology

15 Points 0.1250 EFTS

An introduction to the mechanisms of how the body works, concentrating on osmoregulation and excretion, digestion, nerves and muscles.

P: BIOL 111 (=BCHM 111) or ENCH 281

BIOL250-21S1 (C) Semester 1

BIOL 253 Cell Biology I

15 Points 0.1250 EFTS

Internal organisation of the cell. The course will build on the introduction to cell biology in BIOL 111 (BCHM 111) and seek to develop further understanding of the internal workings of the cell.

P: BIOL 111 (=BCHM 111) or ENCH 281

R: BCHM 253

EQ: BCHM 253

BIOL253-21S1 (C) Semester 1

BIOL 254 Principles of Plant Physiology

15 Points 0.1250 EFTS

The principles of plant development, including the basic anatomy of higher plants, and how they grow, respond to external stimuli and reproduce. Relationship between these concepts and developments in agriculture and biotechnology.

P: BIOL 111 (=BCHM 111) or ENCH 281

R: BIOL 252

BIOL254-21S2 (C) Semester 2

BIOL 271 Evolution

15 Points 0.1250 EFTS

An introduction to evolution: patterns and processes of evolution; mechanisms of evolution, adaptation, speciation and extinction.

P: BIOL 112

BIOL271-21S1 (C) Semester 1

BIOL 272 Principles of Animal Behaviour

15 Points 0.1250 EFTS

This course is intended to provide a broad understanding of how animals interact with each other and with their environment. This course will cover the control, development, adaptive significance and evolution of behaviour. We will use a combination of traditional lectures, selected case studies, laboratory and fieldwork to learn fundamental concepts animal behaviour. Additional reading of scientific papers will be an essential adjunct to the lectures and especially to assessments.

P: BIOL 112 or PSYC 105

BIOL272-21S2 (C) Semester 2

BIOL 273 New Zealand Biodiversity and Biosecurity

15 Points 0.1250 EFTS

An overview of the indigenous flora and fauna of New Zealand, including their biogeographic origins, the unique and unusual aspects of native organisms, the makeup of native communities, and their interactions with introduced organisms. Emphasis will be placed on the role of biological invaders in modifying New Zealand ecosystems.

P: BIOL 112 or BIOL 113

R: BIOL 114

BIOL273-21S2 (C) Semester 2

Fieldwork is required.

BIOL 274 Principles of Ecology

15 Points 0.1250 EFTS

This course provides a fundamental grounding in the main concepts in and applications of ecology, the study of relationships between organisms and their environment. The most important concepts in population, community, landscape and ecosystem ecology are covered.

These are considered using examples from across marine, freshwater, forest, grassland, urban and production ecosystems, and with particular reference to the factors controlling the distribution of plants, animals and microbes in Aotearoa New Zealand, and their differences to other countries. There is a particular emphasis on the problems and issues affecting natural systems, and how ecological knowledge can be applied to achieve solutions. We will also recognise taongo species and consider Māori perspectives on cultural management of natural resources. Overall, this course provides a thorough overview for those wanting to complement other environmental knowledge. It can be combined with BIOL275 Field Ecology to provide a comprehensive platform for those wanting to undertake more advanced ecological study.

P: BIOL 112

R: BIOL 270

BIOL274-21S1 (C) Semester 1

BIOL274-21S1 (D) Semester 1

BIOL 275 Field Ecology

15 Points 0.1250 EFTS

This course provides a fundamental grounding in the practical skills used in ecology, the study of relationships between organisms and their environment. It is designed to add to the co-requisite course BIOL274 Principles of Ecology (to form the equivalent of the 30-pt BIOL270 Ecology) if students want to advance to 300-level ecology courses. There is a particular emphasis on the problems and issues affecting natural systems, and how ecological knowledge can be applied to achieve solutions. The focus of the course is a four-day field trip to the UC Cass field station near Arthur's Pass National Park. Combined with laboratory sessions prior to cultivate basic skills, the field course allows students to develop expertise in field experimental design and sampling, data analysis and interpretation, as well as providing practical experience in some wonderful high country environments. We will also recognise taongo species and consider appropriate Māori protocols (tikanga) for sampling in the field and the need for consultation. Overall, this course provides both a comprehensive platform for those wanting to undertake more advanced ecological study. The combination of BIOL274 and BIOL275 is a prerequisite for all ecology core courses that 300-level, and for students intending to progress to postgraduate level in ecology.

C: BIOL 274

R: BIOL 270

BIOL275-21S1 (C) Semester 1

BIOL 305 Practical Field Botany

15 Points 0.1250 EFTS

A residential field course focussing on the identification and sampling of plants, in practical (field) conditions.

P: (1) BIOL 215 or (2) BIOL 273 or (3) BIOL 270 or (4) BIOL 274 and BIOL 275 or (5) subject to approval by the Head of the School of Biological Sciences

BIOL305-21SU1 (C) Summer (Jan 21)

Limited entry. See limitation of entry regulations. Fieldwork is required.

BIOL 309 Experimental Design and Data Analysis for Biologists

15 Points 0.1250 EFTS

Advanced experimental design and statistical techniques for biologists. This course is essential for all students considering postgraduate study in biological sciences.

P: BIOL 209 or appropriate statistical background as determined by the Head of School

BIOL309-21S2 (C) Semester 2

BIOL309-21S2 (D) Semester 2

BIOL 313 Advanced Microbiology

15 Points 0.1250 EFTS

This course builds on BIOL213 and explores microbial ecology, advanced food and agricultural microbiology, disease and pathogenesis. The course emphasises bacteria and fungi, with other microbes also considered. Both fundamental and applied microbiology will be covered. The practical component of the course consists of isolating and characterising novel microbial strains, using both molecular and traditional approaches.

P: BIOL 213

BIOL313-21S2 (C) Semester 2

BIOL 332 Genetics, Evolution and Ecology of Invasive Species

15 Points 0.1250 EFTS

An introduction to the genetics and evolution of biological invasions, including the use of molecular tools to answer applied questions regarding the source, spread, and effects of introduced organisms within an ecological context.

P: BIOL 215 or BIOL 271

BIOL332-21S2 (C) Semester 2

BIOL 333 Molecular Genetics

15 Points 0.1250 EFTS

BIOL333 is an advanced molecular genetics course that builds on the conceptual frameworks developed in the pre-requisite course BIOL231/BCHM202. It provides in-depth coverage across the breadth of life with an emphasis on gene expression, gene concepts and biotechnology.

P: BIOL 231 (=BCHM 202)

R: BIOL 330

BIOL333-21S1 (C) Semester 1

BIOL 334 Evolutionary Genetics and Genomics

15 Points 0.1250 EFTS

BIOL334 is an advanced course that builds on the conceptual frameworks developed in the pre-requisite course BIOL271. It provides in-depth coverage across the breadth of evolutionary genetics and genomics with an emphasis on conservation genetics/genomics, epigenetics, evolution and development (evo-devo), and genomic interactions with the environment.

P: BIOL 215 and BIOL 271

R: BIOL 330

BIOL334-21S2 (C) Semester 2**BIOL 336 Ecological and Evolutionary Models**

15 Points 0.1250 EFTS

Introduction to key ecological and evolutionary models. The course introduces how to solve basic mathematical models and how to use computational tools to explore their solutions. Students learn how to create simple models to understand how complex, real-world processes unfold.

P: BIOL 209 or 15 Points of 200-level COSC or DATA or EMTH or ENCE or PHYS or MATH or STAT.

RP: BIOL 270, BIOL 271 or BIOL 274

BIOL336-21S1 (C) Semester 1**BIOL 337 Bioinformatics**

15 Points 0.1250 EFTS

The general aim of this course is to discuss major concepts in the bioinformatic analysis, application, handling and management of large-scale biological data, and apply these bioinformatics methods to real-world issues. The central focus will be on bringing together previously developed skills in programming, computing and data wrangling, and evaluating how these skills apply to biological datasets. This paper will also discuss the cultural, political, social and legal issues regarding data ownership, use and governance. The course will consist of regular lectures and computer labs, where students will be able to explore biological datasets using their knowledge of bioinformatics. The emphasis is on the amalgamation of students' previous two years of training and experience, providing students with the context and the background required to apply their skills in the real world. Skills learnt will be assessed via short computer lab reports and a final exam. BIOL337 is a required course for enrolment in BIOL338 (Bioinformatics Project).

P: BIOL 231 and DATA 201 and [STAT 201 or BIOL 209]

BIOL337-21S1 (C) Semester 1**BIOL 338 Bioinformatics Project**

30 Points 0.2500 EFTS

This course will develop your ability to undertake research in bioinformatics. Drawing on existing datasets, you will design and complete a research project. The aim is for most projects to be based on real-world problems with data provided in collaboration with a research partner. The training, practice and critical evaluation of the research will be carried out in groups, and you will communicate your research findings using spoken, statistical and written skills. The course consists of regular lectures/tutorials and project group meetings, supported by web-based resources. It concludes with a public conference, where you will present your findings. The emphasis is on students working together to solve real-world bioinformatic problems using skills that are transferable to the workplace.

P: BIOL 337

BIOL338-21S2 (C) Semester 2**BIOL 351 Cell Biology 2**

15 Points 0.1250 EFTS

Advanced study of cellular organisation and interactions with emphasis on the relationships between molecular structure and organelle and cell function.

P: BIOL 253 (=BCHM 253)

BIOL351-21S2 (C) Semester 2**BIOL 352 Plant Development and Biotechnology**

15 Points 0.1250 EFTS

Biotechnology for industries using plants and plant products. The principles and applications of advanced cell biology, plant tissue culture and genetic engineering. Use of natural products in industry.

P: BIOL 254 or BIOL 253 (=BCHM 253) or BIOL 231 (=BCHM 202)

BIOL352-21S1 (C) Semester 1**BIOL 354 Animal Ecophysiology**

15 Points 0.1250 EFTS

Comparative aspects of physiological adaptation to aquatic and terrestrial environments. Topics include osmoregulation, excretion, respiration, circulation, temperature acclimation, using both vertebrate and invertebrate examples.

P: BIOL 250

BIOL354-21S2 (C) Semester 2**BIOL 355 Neurons, Hormones and Behaviour**

15 Points 0.1250 EFTS

The physiological basis of behaviour. Building on the introduction to Animal Physiology in BIOL250, this course will concentrate on the endocrine and nervous systems and develop an

understanding of how these systems have evolved to fine-tune the behaviour of animals.

P: BIOL 250

RP: BIOL 272

BIOL355-21S1 (C) Semester 1**BIOL 371 Evolutionary Ecology**

15 Points 0.1250 EFTS

The focus of this course is on how the interplay between ecological and evolutionary forces generate biological diversity at many levels, and how this knowledge is used to solve problems in human health, agriculture and conservation.

P: BIOL 271

BIOL371-21S1 (C) Semester 1**BIOL 375 Freshwater Ecosystems**

15 Points 0.1250 EFTS

Advanced theories and concepts of freshwater ecology and their practical application to current issues.

P: BIOL 209 and either (1) BIOL 270 or (2) BIOL 274 and BIOL 275

BIOL375-21S2 (C) Semester 2*Fieldwork is required.***BIOL 377 Global Change and Biosecurity**

15 Points 0.1250 EFTS

A discussion of major concepts in community and ecosystems ecology in the context of anthropogenic changes to the environment and pressure from invasive exotic species.

P: BIOL 209 and either (1) BIOL 270 or (2) BIOL 274 and BIOL 275

BIOL377-21S1 (C) Semester 1*Fieldwork is required.***BIOL 378 Population Ecology and Conservation**

15 Points 0.1250 EFTS

Advanced concepts in population ecology, especially those most relevant to the New Zealand region and to the conservation of the New Zealand biota. Topics include life history tradeoffs, dispersal and metapopulations, species interactions, population regulation, population modelling, management of populations, and issues for species conservation in New Zealand.

P: BIOL 209 and either (1) BIOL 270 or (2) BIOL 274 and BIOL 275

BIOL378-21S1 (C) Semester 1*Fieldwork is required.***BIOL 383 Behavioural Ecology**

15 Points 0.1250 EFTS

The development and adaptive significance of behaviour with emphasis on the relationship between ecology and behaviour.

P: BIOL 209 and BIOL 272

R: BIOL 373

BIOL383-21S1 (C) Semester 1*Fieldwork is required.***BIOL 384 Marine Ecosystems**

15 Points 0.1250 EFTS

Advanced theories, concepts and applications of marine ecology to current issues.

P: BIOL 209 and either (1) BIOL 270 or (2) BIOL 274 and BIOL 275.

R: BIOL 374

RP: BIOL 212

BIOL384-21S2 (C) Semester 2*Fieldwork is required.***Tāura | Tāura | Postgraduate**

Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.

BIOL 401 Special Topic: Laboratory Research Project

30 Points 0.2500 EFTS

300 hours of independent research performed under the guidance of a supervisor who is a member of academic staff. To be assessed by a short written report. Note: Administered by the School of Biological Sciences for MSc students only; please see the School for more information.

P: Subject to approval of the Head of School.

BIOL401-20SU2 (C) Summer (Nov 20)**BIOL401-21SU1 (C) Summer (Jan 21)**

BIOL 402 Special Topic: Field Research Project

30 Points 0.2500 EFTS

300 hours of independent research performed under the guidance of a supervisor who is a member of academic staff. To be assessed by a short written report. Note: Administered by the School of Biological Sciences for MSc students only; please see the School for more information.

P: Subject to approval of the Head of School.

BIOL402-20SU2 (C) Summer (Nov 20)

BIOL402-21SU1 (C) Summer (Jan 21)

BIOL 411 Research Preparation

15 Points 0.1250 EFTS

To introduce and discuss the methodology and principles involved in preparing for research, and to broaden perspectives in the development of a research-oriented career.

P: Subject to approval of the Head of School.

R: BIOL 405

BIOL411-21S1 (C) Semester 1

BIOL 412 Research Proposal

15 Points 0.1250 EFTS

To introduce and develop skills in the synthesis of research findings and the writing of a detailed research proposal.

P: BIOL 411. For those students who begin 4th year in the middle of the year, BIOL 410 and BIOL 411 must be completed in Semester 1 of the following year.

R: BIOL 405

BIOL412-21S1 (C) Semester 1

BIOL412-21S2 (C) Semester 2

BIOL 420 Terrestrial Ecology

15 Points 0.1250 EFTS

This course covers current advances in terrestrial ecology with a focus on population and species ecology. It covers species interactions, such as herbivory, pollination, seed dispersal, and epidemics. Examples concentrate on interactions among vascular plants (trees and shrubs), vertebrate and invertebrate animals, and pathogens, and interactions of those species with the physical environment.

P: Subject to approval of the Head of School.

R: BIOL 478

RP: BIOL 378 Population Ecology and Conservation

BIOL420-21S2 (C) Semester 2

BIOL 423 Evolutionary Ecology

15 Points 0.1250 EFTS

Aims to equip ecology students with the evolutionary biology underpinning the discipline. Students will advance their knowledge of current issues and approaches in evolutionary ecology, particularly those of relevance to global change. The course has a focus on phenotypic evolution and processes occurring at the interface of ecology and evolution.

P: Subject to approval of the Head of School.

R: BIOL 478

BIOL423-21S2 (C) Semester 2

BIOL 424 Community Ecology

15 Points 0.1250 EFTS

To develop skills in the critique of literature and formulation and testing of hypotheses within the field of community ecology.

P: Subject to approval of the Head of School.

R: BIOL 471

BIOL424-21S2 (C) Semester 2

BIOL 425 Freshwater Ecology

15 Points 0.1250 EFTS

Aims to develop students as professional freshwater ecologists. Students will advance their knowledge of current issues and approaches in freshwater ecology, particularly the concepts that underpin understanding of freshwater ecosystems and the application of research to management and conservation issues in New Zealand. Has a focus on the skills needed by professionals working in freshwater-related areas of research, consultancy and management.

P: Subject to approval of the Head of School.

R: BIOL 472

BIOL425-21S1 (C) Semester 1

BIOL 426 Conservation Biology

15 Points 0.1250 EFTS

This course covers aspects of biology that are useful in applied conservation situations. In other words, how can ecologists help to preserve biodiversity? Topics covered include: what is rarity; extinction rates past and present; limiting factors in endangered species management; adaptive management of NZ species; reserve design in theory and practice; conservation and climate change. This course complements BIOL429 which looks at conservation genetics.

P: Subject to approval of the Head of School.

R: BIOL 474

BIOL426-21S2 (C) Semester 2

BIOL 427 Global Change Biology

15 Points 0.1250 EFTS

This course will address selected major issues concerning the role of biological processes in the Earth System and the impact on these of human activities (global change). Discussion will include carbon and nutrient cycling in terrestrial and marine ecosystems, the impacts of past and future climate change on biota, the significance of biodiversity loss on ecosystem processes and strategies to mitigate climate change.

P: Subject to approval of the Head of School.

R: BIOL 479

BIOL427-21S1 (C) Semester 1

BIOL 428 Marine Biology and Ecology

15 Points 0.1250 EFTS

This course focuses on current issues in marine biology and ecology. It includes a critical assessment of experimental approaches, ecological and physiological processes affecting the structure of marine communities and the application of research to current issues.

P: BIOL 270 or BIOL 250

R: BIOL 473

BIOL428-21S1 (C) Semester 1

BIOL 429 Conservation Genetics

15 Points 0.1250 EFTS

This course addresses contemporary issues in conservation genetics including the genetic consequences of small population size, the genetic consequences of hybridisation and introgression, the role of genetics in species recovery, and the genetic management of captive and wild populations in collaboration with diverse end-users.

P: Subject to approval of the Head of School.

R: BIOL 431

BIOL429-21S1 (C) Semester 1

BIOL 438 Behaviour

15 Points 0.1250 EFTS

Current topics in the study of animal behaviour with an emphasis on empirical tests of theoretical issues. Topics vary from year to year but include sexual selection, foraging strategies, parental care and parasitism, problem solving and animal cognition.

P: Subject to approval of the Head of School.

R: BIOL 470

BIOL438-21S1 (C) Semester 1

BIOL 455 Applied and Molecular Microbiology

15 Points 0.1250 EFTS

This course will help students develop as scholars and advance their research skills in areas of applied and molecular microbiology. With microbes being ubiquitous and ever more important to commerce, the course will offer opportunities to explore cultural and social perceptions of appropriate use of microbiological science. The course focuses on the critical evaluation of scientific evidence.

P: Subject to approval of the Head of School.

R: BIOL 493

RP: BIOL 313, BIOL 333, BCHM 301/BCHM 331

BIOL455-21S1 (C) Semester 1

BIOL 456 Dynamics of Microbiological Interactions

15 Points 0.1250 EFTS

Microbiological interactions impact on almost every aspect of biology, from plant nutrient uptake and photosynthesis to animal digestion to ecosystem function. We will explore the intimate interactions of microorganisms with plants and animals, and other microorganisms. We consider a range of microorganisms, including bacteria, oomycetes, fungi, and archaea. You will develop skills in evaluating how molecular, ecological, biochemical and synthetic community approaches contribute to our understanding of microorganisms and their myriad interactions.

P: Subject to approval of the Head of School.

R: BIOL 493

RP: At least one of BIOL 313, BIOL 332-335, BIOL 352, BIOL 455, BIOL 460, and/or BCHM 305.

BIOL456-21S2 (C) Semester 2

BIOL 457 Macromolecular Evolution & Engineering

15 Points 0.1250 EFTS

The primary goal of this course is to assist student development as scholars and advance their research skills in fields of science that use molecular evolution and molecular design (i.e. synthetic biology) to address a wide diversity of biological questions and problems. The course focuses on the critical evaluation of scientific methodology and how such methodology can be applied to engineer new biomolecules.

P: Subject to approval of the Head of School.

RP: BIOL 331/BCHM 301 (Biochemistry 3) and/or Protein Science (BIOL 435/BCHM 403), which

is designed to be a compatible course run in S1. In addition, one from the following is highly recommended: BIOL 313 (Microbiology) or BIOL 333 (Molecular Genetics) (or equivalent, as determined by course co-ordinator).

BIOL457-21S2 (C) Semester 2

BIOL 459 Genomics

15 Points 0.1250 EFTS

Students taking this course will develop a deep knowledge in a current area of genome biology and evolution. Students will get to grips with the latest research in this fast moving field, read deeply on a chosen topic, and develop strong critical thinking, writing and debating skills.

P: Subject to approval of the Head of School.

R: BIOL 430/BCHM 406/BCHM 459

BIOL459-21S2 (C) Semester 2

BIOL 460 Molecular Biology

15 Points 0.1250 EFTS

Molecular biology comprises a suite of tools and approaches for understanding the structure and function of DNA, RNA and proteins. The primary goal of this course is to assist the development of scholars with advanced technical skills in molecular biology who can use these tools to infer evolutionary and functional relationships.

P: Subject to approval of the Head of School.

R: BIOL 434/BCHM 405

BIOL460-21S1 (C) Semester 1

BIOL 461 Protein Science

15 Points 0.1250 EFTS

An advanced treatment of protein science, covering structure, function, applications, and the inter-relationships between these.

P: Subject to approval of the Head of School.

R: BIOL 435/BCHM 403

BIOL461-21S1 (C) Semester 1

BIOL 462 Medical Biochemistry

15 Points 0.1250 EFTS

The primary goal of this course is to assist student development as scholars and advance their knowledge and literature research skills in the field of Medical Biochemistry. This course will exam broad topics of medical interest where biochemical techniques have been used to examine the basis of human pathological process. The course will examine topic areas of medical research using recent peer reviewed publications. The course focuses on the critical evaluation of the research literature and evaluation of competing theories on the mechanism of selected disease pathologies.

P: Subject to approval of the Head of School.

R: BIOL 436/BCHM 401

BIOL462-21S2 (C) Semester 2

BIOL 463 Cell Biology

15 Points 0.1250 EFTS

A critical examination of recent advances in cell biology with emphasis on cell signalling, the cytoskeleton, cell junctions and the nucleus. The focus ranges from fundamental cellular and molecular biology to consideration of cellular mechanisms within the context of physiological or pathological processes.

P: Subject to approval of the Head of School.

R: BIOL 432

RP: Recommended preparatory course BIOL 351 or BIOL 331/BCHM 301

BIOL463-21S1 (C) Semester 1

BIOL 480 Project

30 Points 0.2500 EFTS

A written report on a research project approved by the Head of School of Biological Sciences. The report must be completed and presented by the due date in the year in which the student presents the courses selected from BIOL401 - BIOL493 (refer to degree schedule).

P: Subject to the approval of Head of School

BIOL480-21W (C) Whole Year (S1 and S2)

BIOL 481 Environmental Animal Physiology

15 Points 0.1250 EFTS

Physiological adaptations that allow animal life to survive in diverse environments. The course will look at the strengths and weaknesses of the comparative approach and its relationship to phylogeny. Topics that may be addressed include osmoregulatory physiology and water balance, thermoregulation, metabolic rates, exercise and cardiovascular physiology.

P: Subject to approval of the Head of School.

R: BIOL 451

RP: BIOL 354

BIOL481-21S2 (C) Semester 2

BIOL 496 Plant Developmental Biology and Biotechnology

15 Points 0.1250 EFTS

To examine recent advances in plant biology research and, where appropriate, the implications of this research for biotechnological applications. Seminar topics may include any aspect of plant development and plant response to its biotic and abiotic environment.

P: Subject to approval of the Head of School.

R: BIOL 491

BIOL496-21S2 (C) Semester 2

BIOL 690 MSc Thesis

120 Points 1.0000 EFTS

P: Subject to the approval of Head of School.

BIOL690-21A (C) Starts Anytime

Part-time enrolment (0.65 EFTS) is available on approval.

BIOL 790 PhD Thesis

120 Points 1.0000 EFTS

P: Subject to approval of Head of School.

BIOL790-21A (C) Starts Anytime

Part-time enrolment (0.65 EFTS) is available on approval. *From 1 January 2008, international students who are residing in New Zealand on a NZ Immigration Study Visa pay the Domestic Fee for this course. International fees apply for all other courses.

Biosecurity

School of Biological Sciences

BIOS 201 Issues in New Zealand Biosecurity

15 Points 0.1250 EFTS

This course will establish a scientific, legal and practical definition of biosecurity and pursue the ramifications of breaches to the systems in place to protect New Zealand from such affronts to our security.

P: 60 points at 100-level

R: BIOS 101

BIOS201-21S2 (C) Semester 2

Limited entry. See limitation of entry regulations.

Biotechnology

School of Biological Sciences

Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.

BIOT 480 Project

30 Points 0.2500 EFTS

A written report on a research project approved by the Head of Department. The report must be completed and presented to the Registrar by 1 November in the year in which the student presents the courses selected from BIOL401-493 (refer to degree schedule).

P: Subject to approval of the Head of Department

BIOT480-21W (C) Whole Year (S1 and S2)

BIOT 690 MSc Thesis

120 Points 1.0000 EFTS

P: Subject to approval of the Head of School.

BIOT690-21A (C) Starts Anytime

Part-time enrolment (0.65 EFTS) is available on approval.

BIOT 790 Biotechnology PhD

120 Points 1.0000 EFTS

P: Subject to approval of the Head of School.

BIOT790-21A (C) Starts Anytime

Part-time enrolment (0.65 EFTS) is available on approval. *From 1 January 2008, international students who are residing in New Zealand on a NZ Immigration Study Visa pay the Domestic Fee for this course. International fees apply for all other courses.

Business

UC Business School

BSNS 201 Business and Culture

15 Points

0.1250 EFTS

In this course, students will reflect on their own participation in multiple cultural forms: ethnic, occupational, gendered, national, digital, global, temporal etc. They will hear from academics and practitioners about their experiences of culture and their advice on how to engage with cultures. Students will learn how to build connections with people in ways which respect cultural traditions and allow for reciprocal, mutually beneficial relationships to develop in their future occupations and workplaces.

P: Any 60 points.

RP: ACCT 102, ECON 104, MGMT 100

BSNS201-21S1 (C)**Semester 1****BSNS201-21S2 (C)****Semester 2**

BSNS 299 UC Employability Portfolio

0 Points

0.0000 EFTS

The UC Employability Portfolio provides students with formal recognition of activities that increase their employability and their engagement with the community.

P: Any 180 points. Must be enrolled in the BCom.

BSNS299-21S1 (C)**Semester 1****BSNS299-21S2 (C)****Semester 2**

Tāura | Tāura | Postgraduate

Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.

MBAM 601 Digital Transformation and Technology Preparedness

15 Points

0.1250 EFTS

The course embodies the growing need for organisations to embrace a change oriented culture - with a heightened focus on organisational digital maturity in its processes, products/services, business models and its people. In doing so, the organisation's digital strategy must integrate a range of technologies that support a breadth of functions ultimately offering a superior user/customer experience. The course will explore and provide hands-on opportunities, in collaboration with industry, for participants to engage with technologies such as blockchain, IoT, AI etc. Furthermore, to be able to influence, participants will also familiarise themselves with the strategic use of business cases and risk assessment.

P: Subject to approval of the MBA Director.

MBAM601-21T3 (C)**06 Sep 2021 - 28 Nov 2021***Special MBA fee also applies.*

MBAM 602 Economic Uncertainty and Organisational Agility

15 Points

0.1250 EFTS

This course will introduce you to a range of economic and change principles, which on application to everyday real life scenarios will help you gain insights to prepare for and drive organisational change. You will be able to use the tools of economics to understand why people do what they do - tools like supply and demand will help explain the behaviour of people, firms, governments, countries and markets. The course will also focus on externalities relating to geopolitics, markets, technologies with a view to assessing how (successful) businesses / organisations deal with risk, uncertainty and shocks. In doing so, the course will expose you to tools to evaluate agility in organisational strategies.

P: Subject to approval of the MBA Director.

MBAM602-21T2 (C)**24 May 2021 - 15 Aug 2021***Special MBA fee also applies.*

MBAM 603 Innovation Driven Customer Value

15 Points

0.1250 EFTS

Design Thinking is a people centric, collaborative, optimistic and experimental way of working to drive innovation and create customer value. It is a pragmatic approach that aims to nurture deep curiosity about an issue, unleash creativity in how to approach it, and ensure clarity when it comes to implementing solutions. In these sessions we introduce a process that can be used to approach problems with this new perspective. We work with a lot of new tools and techniques that will help teams collaborate in more creative ways. And we use these to address live business/organisational issues to show how this method can be practically applied.

P: Subject to approval of the MBA Director.

MBAM603-21T1 (C)**08 Feb 2021 - 02 May 2021***Special MBA fee also applies.*

MBAM 604 Data Informed Strategy

15 Points

0.1250 EFTS

The Fourth Industrial Revolution, as is being dubbed across the globe today, will thrive on technology, automation and data. Most strategic decisions involve deciding to continue with status, quo, stop or do something new. Today, companies have access to large amounts of data. Organisations that know how to use data effectively perform better. We see this trend in even the most traditional industry sectors such as farming. This course will prepare participants to

ask the right questions, be skilled at identifying what data to use and analysing for information and insights, that inform the strategic question being asked. Working with industry partners this course will provide insight into how executives can use data to have an impact on an organisation.

P: Subject to approval of the MBA Director.

MBAM604-21T2 (C)**24 May 2021 - 15 Aug 2021***Special MBA fee also applies.*

MBAM 605 Creating impact led enterprises

15 Points

0.1250 EFTS

This course works through comprehensive insights on the conceptual and empirical issues that link organisational practice with the ability to sustain. Beyond creating customer and shareholder value, organisations are increasingly being viewed through the lens of social and environmental impacts. What are the links to CSR? How do organisations manage sustainability trade-offs? What role does technology play in the context of a sustainable enterprise? These are some questions that will drive the focus of this course.

P: Subject to approval of the MBA Director.

MBAM605-21T1 (C)**08 Feb 2021 - 02 May 2021***Special MBA fee also applies.*

MBAM 606 Societies in Smart Cities

15 Points

0.1250 EFTS

The OECD in its Transformation for Public Value report suggest that cities are the first to react to transformational shifts that citizens go through. Quality of life for the city's residents should intertwine with organisational purpose and impact. Amazon's experience of pitting 20 cities against each other to bid for its second HQ followed by the community backlash when it selected New York City is a case in point. So, how do organisations respond? What data would organisations need to harness and how can this inform organisational strategies? Societies in Smart Cities extends the deliberation of smart cities to comprehend how the related technological innovations create value and impact on society.

P: Subject to approval of the MBA Director.

MBAM606-21T3 (C)**06 Sep 2021 - 28 Nov 2021***Special MBA fee also applies.*

MBAM 610 Agile and Innovation-driven Leadership

15 Points

0.1250 EFTS

Contemporary leaders need capabilities and mindsets for creating organisational cultures that are agile and maximise ability, in order to overcome challenges, seize opportunities, and create new value. These leaders shape and develop teams with high engagement, collaboration, shared learning, creativity, resilience and innovation. This course provides leadership development and self-awareness through a blend of practice-related activities, personal assessments, reflection, reading, discussion, and input from practising leaders. The goal is to promote leadership skills, critical thinking, and self-awareness that will equip participants for an ongoing journey of growth and development as reflective contemporary leaders. This course is delivered across three terms of the MBA.

P: Subject to approval of the MBA Director.

MBAM610-21X (C)**08 Feb 2021 - 28 Nov 2021***Special MBA fee also applies.*

MBAM 620 Creative Challenge

15 Points

0.1250 EFTS

This course on Creative Challenge has been curated in the program to offer participants an opportunity to push the boundaries and challenge their own status quo by establishing a stretch goal, planning an intervention to address the challenge and working to execute it. It is imperative in designing the performance metrics or rubrics that participants incorporate a 50% likelihood that they will NOT achieve the intended goal. This will ensure the true nature of 'stretch' and 'growth'. Participants will largely be self-directed in executing the plan but will have access to guidance of a coach, industry or academic mentor.

P: Subject to approval of the MBA Director.

MBAM620-21X1 (C)**MBAM620-21X2 (C)***Special MBA fee also applies.*

MBAM 680 Consulting Project

45 Points

0.3750 EFTS

This course involves working with an organisation to address a practical issue of strategic importance. This course will be undertaken by participants on completion of the core courses in the program. Working through a real challenge (e.g. digital, data, innovation, strategy, or similar) the participant will need to create informed-solutions to the problem. Typical of many projects a list of recommendations or proposed next steps generally evolve. The nature of this course requires that the participant, in consultation with the organisation, implement at least one of the proposed recommendations. If deemed appropriate, a scenario implementation will be accepted.

P: MBAM 601, MBAM 602, MBAM 603, MBAM 604, MBAM 605, MBAM 606, MBAM 610, MBAM 620 and approval of the MBA Director.

MBAM680-21A (C)**Starts Anytime***Special MBA fee also applies.*

MBAZ 676 Evidence Based Sustainable Supply Chain Management

30 Points 0.2500 EFTS

We examine the practice of Evidence-based management within the context of contemporary issues in sustainable supply chain management such as the impact of sustainable supply chain practices on business performance, key general principles managing sustainable supply chain initiatives, and managing for sustainability in dynamic and complex situations that are typical in today's global business environment. The Supply Chain Operations Reference (SCOR) model will form the conceptual framework for applying and evaluating supply chain management practices beyond financial performance to also include environmental, social and cultural performance issue

P: MBUS 645 and MBUS 646

MBAZ676-21T3 (C) 30 Aug 2021 - 21 Nov 2021**MBUS 626 Digital Marketing**

15 Points 0.1250 EFTS

This course offers an advanced examination of marketing practices on the Internet. MBUS626 draws specific attention to the role of online, mobile, and social media marketing techniques on contemporary business practices. The course prepares students for using digital marketing platforms and decision making in the modern workplace. The course uses a combination of theoretical learning through traditional lecturing and hands on experience with online tools, such as Google Analytics. Concepts will be drawn from a variety of sources to help understand how the Internet can be used as not only a communication tool, but also a medium of exchange and engagement. Theories and concepts will be drawn from a variety of sources to aid in students' understanding of the role the Internet plays in organisations' marketing endeavours. The course extends the existing marketing offerings by going into far greater depth with online and digital media.

P: MBUS 601

MBUS626-21T2 (C) 03 May 2021 - 20 June 2021**MBUS 627 Event Marketing and Management**

15 Points 0.1250 EFTS

This course provides concepts and skills for planning, organizing and marketing of events. The business of events is global and includes the notion of MICE (Meetings, Incentives, Conferences and Events). This course will specifically focus on understanding the event life cycle, beginning with the idea or theme of the event, up to assessing feasibility, bidding campaign, event and meeting planning, event and meeting management, event branding, use of media technologies for events and meetings, facility management, event sustainability and event legacy. This course has also a focus on the practice of organizing and hosting a meeting or event, and therefore has a strong applied component.

P: MBUS 601

MBUS627-21T2 (C) 03 May 2021 - 20 June 2021**MBUS 643 Supply Chain Management Fundamentals**

15 Points 0.1250 EFTS

This course provides foundational supply chain concepts, basis analysis tools and decision-making models used in the design and operations of manufacturing and distribution systems across integrated supply chain systems. In addition to functional concepts across procurement, operations and logistics/distribution, students will be introduced to concepts of supply chain dynamics, risk and resilience, as well as relational management.

P: Subject to the approval of the Programme Director

MBUS643-21T1 (C) 01 Feb 2021 - 25 Apr 2021**MBUS643-21T1 (D)** 01 Feb 2021 - 25 Apr 2021**MBUS 644 Principles of Business Sustainability**

15 Points 0.1250 EFTS

Concurrent to supply chain fundamentals, this course provides foundational concepts for understanding sustainability from a business perspective. Systems concepts, incorporating both ecological and social domains are integrated into the dominant logics of business so as to create a conceptual framework for students moving forward in the supply chain degree. All subsequent courses will build on the sustainability foundation established in this course.

P: Subject to the approval of the Programme Director.

MBUS644-21T1 (C) 01 Feb 2021 - 25 Apr 2021**MBUS644-21T1 (D)** 01 Feb 2021 - 25 Apr 2021**MBUS 645 Supply Chain Analytics**

15 Points 0.1250 EFTS

Supply chains consist of multiple firms, often geographically dispersed, that exchange goods/ services, information and which have various sustainability impacts. Analytical tools and techniques are fundamental to supply chain management in order to manage supply networks efficiently and in a sustainable manner. This course focuses on fundamental analytical methods and tools in supply chain management from a practical perspective as well as from sustainability perspective.

P: MBUS 643 and MBUS 644

MBUS645-21T2 (C) 03 May 2021 - 20 June 2021**MBUS 646 Strategic Supply Chain Management for Sustainability**

15 Points 0.1250 EFTS

In today's business environment, organisations need to identify their competitive advantages and develop their operations and supply chain management capabilities accordingly, particularly

with respect to organisational sustainability impacts. This course focuses on the understanding of broader concepts of supply chain management and strategy from perspectives important to supply chain management such as capacity, IT, collaboration, new product development and performance management. Sustainability is woven in throughout the course through cases, readings and discussion.

P: MBUS 643 and MBUS 644

MBUS646-21T2 (C) 03 May 2021 - 20 June 2021

Business Administration

MBA Programme

Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.

Business Information Systems

Business Taught Masters Programme

Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.

MBIS 601 Management of Information Systems

15 Points 0.1250 EFTS

This course introduces key principles, concepts, and theories related to the management and use of Information Systems to support organisational aims. The course covers information technology concepts, IS and business strategy, IS applications, IS acquisition, governance, IS evaluation, IS and biculturalism.

P: Subject to approval of the Head of Department

MBIS601-21T1 (C) 01 Feb 2021 - 25 Apr 2021**MBIS 602 Systems Analysis and Process Modelling**

15 Points 0.1250 EFTS

This course covers key concepts, processes, tools, techniques, and frameworks used to analyse and specify the design of information systems, business process and data modelling, the role and responsibilities of the systems analysts, and challenges of IS development.

P: Subject to approval of the Head of Department

MBIS602-21T1 (C) 01 Feb 2021 - 25 Apr 2021**MBIS 603 Digital Business and Technology**

15 Points 0.1250 EFTS

This course covers key concepts, principles and frameworks related to digital business strategy and implementation including Business-to-Consumer and Business-to-Business eCommerce and technology infrastructure needed to support these systems. This course explores ethical, legal, and societal issues relating to internet technology use by organisations.

P: Subject to approval of the Head of Department

MBIS603-21T1 (C) 01 Feb 2021 - 25 Apr 2021**MBIS 621 Project Management**

15 Points 0.1250 EFTS

This course covers core principles, tools, and techniques for successful IT project management, the role and responsibilities of a project manager and challenges of IT project management.

P: Subject to approval of the Head of Department

MBIS621-21T2 (C) 17 May 2021 - 08 Aug 2021**MBIS 622 IS Security and Risk Management**

15 Points 0.1250 EFTS

This course examines how organisations manage risk and eSecurity associated with their information systems. Topics include management, analysis and application of secure e-Business systems including security policy and network management.

P: Subject to approval of the Head of Department

MBIS622-21T2 (C) 17 May 2021 - 08 Aug 2021**MBIS 623 Data Management**

15 Points 0.1250 EFTS

This course introduces students to a range of topics that underpin the successful use and management of databases in contemporary organisations. The course exposes the students to associated real life issues related to data management and database management systems.

P: Subject to approval of the Head of Department

MBIS623-21S1 (C) Semester 1

MBIS 624 Business Intelligence in Organisations

15 Points 0.1250 EFTS

This course covers key aspects related to business intelligence (BI) systems and technologies and their application in organisations. The course also covers topics in data warehousing, predictive analytics, data visualisation, data mining (including text and web mining), and emerging trends in BI.

P: Subject to approval of the Head of Department.

MBIS624-21T2 (C) 17 May 2021 - 08 Aug 2021

MBIS 673 Applied IS Project

30 Points 0.2500 EFTS

This course focuses on identification and investigation of a real world problem (or opportunity) impacting individuals, organizations and/or the wider society. It provides an opportunity to develop and apply advanced analytical, theoretical and practically relevant business and information-systems related insight and competencies that can address the problem.

P: (i) MBAZ 604; (ii) 30-points from MBIS

MBIS673-21T3 (C) 30 Aug 2021 - 21 Nov 2021

MBIS 680 Research Project

45 Points 0.3750 EFTS

This course will provide advanced analytical, theoretical and practically applied business and information-systems related insight and competencies in the areas relevant to the learning objectives of the programme.

P: Subject to approval of the Head of Department

MBIS680-21A (C) Starts Anytime

MBIS 691 Information Systems Internship

30 Points 0.2500 EFTS

The internship aims to provide exposure to challenges faced by an organisation through experiential learning. This will reinforce and develop knowledge from other MBIS and graduate courses by providing students with an opportunity to apply IS theory to practice. The internship aims to foster the further development of knowledge and/or expertise in relation to information systems, as well as problem solving, risk management, project management, and reflection and communication skills.

P: (i) 45 points from MBIS 621, MBIS 622, MBIS 623, MBIS 624; (2) Subject to the permission of the Programme Director.

MBIS691-21T1 (C) 01 Feb 2021 - 25 Apr 2021

MBIS691-21T3 (C) 30 Aug 2021 - 21 Nov 2021

Business Management

Business Taught Masters Programme

Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.

MBAZ 602 Business Economics

15 Points 0.1250 EFTS

This course introduces and applies economic principles, concepts and ways of thinking. The focus is on using the lens of economics to view the world. By doing this we gain insight and understanding into people, organisations and issues that matter to society.

P: Subject to the approval of the Programme Director

R: MBAD 604, MBUS 614

MBAZ602-21T1 (C) 01 Feb 2021 - 25 Apr 2021

MBAZ602-21T3 (C) 30 Aug 2021 - 21 Nov 2021

MBAZ602-21X (D) 30 Aug 2021 - 21 Nov 2021

MBAZ 603 Managerial Finance

15 Points 0.1250 EFTS

The application of financial techniques, tools and principles needed to assess the performance of projects and organisations and consider the economic viability of their ongoing success. A consideration of financial risk management and the process required to minimize such risks in different organisational settings.

P: Subject to the approval of the Programme Director

R: MBUS 621, MBAD 611

MBAZ603-21T1 (C) 01 Feb 2021 - 25 Apr 2021

MBAZ603-21T3 (C) 30 Aug 2021 - 21 Nov 2021

MBAZ 604 Business Research Methods

15 Points 0.1250 EFTS

Business research methods including statistical and qualitative approaches are introduced. Students will develop the knowledge and skills required to undertake academic and professional research in the field of business.

P: Subject to the approval of the Programme Director

R: MBUS 642, MBAD 679

MBAZ604-21T2 (C) 17 May 2021 - 08 Aug 2021

MBAZ 605 Business Law

15 Points 0.1250 EFTS

Covering business law structures and regulations this course provides students with the insight, understanding and practical skills to develop strategic direction and solve business problems while effectively adhering to legal requirements.

P: Subject to the approval of the Programme Director

R: MBUS 634, MBAD 658

MBAZ605-21T1 (C) 01 Feb 2021 - 25 Apr 2021

MBAZ605-21T3 (C) 30 Aug 2021 - 21 Nov 2021

MBAZ 671 Applied Marketing Project

30 Points 0.2500 EFTS

The Applied Marketing Project is designed to provide applied research project based learning experiences within the Business Taught Masters programme. This course offers an overview of research process and select methods and their application in marketing. The course builds on the foundations of marketing (MBUS601) and deepens students' understanding of select research techniques. The course consists of in-class time and students' own research time. Students will be required to conduct, report on and present their own research as a professional practitioner would.

P: (i) MBUS 601; and (2) MBAZ 604

MBAZ671-21T3 (C) 30 Aug 2021 - 21 Nov 2021

MBAZ 672 Evidence Based Human Resource Management

30 Points 0.2500 EFTS

This course is designed to develop the Evidence-based management (EBMgt) capability of students. EBMgt is the systematic, evidence-informed practice of management, incorporating scientific knowledge in the content and process of managerial decision making (Rousseau, 2012). We examine the practice of EBMgt within the context of contemporary issues in human resource management (HRM) such as the impact of HRM practices on business performance, key general principles in managing people, and managing people in dynamic and complex situations that are typical in today's global environment.

P: MBUS 603

R: MBAD 605

MBAZ672-21T3 (C) 30 Aug 2021 - 21 Nov 2021

MBAZ 673 Innovation

15 Points 0.1250 EFTS

This course is designed to expose students to innovation challenges faced by organisations through experiential learning. This will reinforce and develop knowledge from other postgraduate courses by providing students with the opportunity to apply concepts to innovation-centric problems.

P: (i) 60 points from MBAZ, MBUS, MPAC, MBIS, MFIN; or (2) 30 points from PROD at 600-level

MBAZ673-21T3 (C) 30 Aug 2021 - 21 Nov 2021

MBAZ 674 Critical Thinking and Problem Solving

15 Points 0.1250 EFTS

Critical thinking is not negative thinking. Rather, it is careful thinking. This 12-weeks course teaches students a wide variety of tools for reasoning in both business context and daily life. It starts with some basic principles of logic-on what arguments are and how to evaluate them to see if they are rationally persuasive. The tools this course covers include Mill's methods, rules of inferences, and how to identify common fallacies of reasoning. The skills taught are highly valued in the business world, and include an enhanced ability to assess information and arguments critically and think independently about them. This is a course for every business student.

P: 60 points from MBAZ, MBUS, MPAC, MBIS, MFIN

MBAZ674-21T1 (C) 01 Feb 2021 - 25 Apr 2021

MBAZ 680 Research Project

45 Points 0.3750 EFTS

Provide advanced analytical, theoretical and practically applied business insight and competencies in the areas relevant to the learning objective of the programme.

P: Subject to the approval of the Programme Director

MBAZ680-21A (C) Starts Anytime

MBAZ 681 Internship

45 Points 0.3750 EFTS

Exposure to challenges faced by organisation through experiential learning. This will reinforce and develop knowledge from other MBM or MPA courses by providing students with the opportunity to apply theories to practice. It will also further develop students' communication skills.

P: Subject to the approval of the Programme Director

MBAZ681-21A (C) Starts Anytime

MBUS 601 Marketing

15 Points 0.1250 EFTS

Consideration of marketing theory and practice. Students will gain an advanced understanding of how marketing plans are developed and implemented.

P: Subject to the approval of the Programme Director

R: MBUS 623, MBAD 606

MBUS601-21T1 (C) 01 Feb 2021 - 25 Apr 2021

MBUS601-21T1 (D) 01 Feb 2021 - 25 Apr 2021

MBUS 602 Leadership

15 Points 0.1250 EFTS

To provide an in-depth understanding of leadership theories and their application to practice.

P: Subject to the approval of the Programme Director

R: MBUS 613, MBAD 615, MBAD 642

MBUS602-21T2 (C) 17 May 2021 - 08 Aug 2021

MBUS 603 Managing People and Performance

15 Points 0.1250 EFTS

To provide an in-depth understanding of managing people and performance that is academically sound and professionally relevant.

P: Subject to the approval of the Programme Director

R: MBAD 605, MBUS 625, MBUS 615

MBUS603-21T2 (C) 17 May 2021 - 08 Aug 2021

MBUS 650 Business Strategy

15 Points 0.1250 EFTS

A critical analysis of how organisations formulate, implement and change business strategy.

Explores the principles and practices of strategic planning and management.

P: Subject to the approval of the Programme Director

R: MBUS 624, MBAD 631, MBAD 632

MBUS650-21T3 (C) 30 Aug 2021 - 21 Nov 2021

MBUS 651 Business Development and Entrepreneurship

15 Points 0.1250 EFTS

A study of contemporary theory and practice in business development and entrepreneurship.

P: Subject to the approval of the Programme Director

R: MBUS 635, MBAD 654

MBUS651-21T2 (C) 17 May 2021 - 08 Aug 2021

Cellular and Molecular Biology

School of Biological Sciences

Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.

CEMB 480 Research Project

30 Points 0.2500 EFTS

A written report on a research project approved by the course Co-ordinator. The report must be completed and presented to the Registrar by the due date, as directed by the course Co-ordinator, in the year in which the student presents the courses chosen from BIOL430-432, BIOL434, BIOL437, BIOL491.

P: Subject to approval of the Head of School.

EQ: CEMB 473

CEMB480-21W (C) Whole Year (S1 and S2)

CEMB 690 MSc Thesis

120 Points 1.0000 EFTS

P: Subject to approval of the Head of School.

CEMB690-21A (C) Starts Anytime

Part-time enrolment (0.65 EFTS) is available on approval.

CEMB 790 Cellular and Molecular Biology PhD

120 Points 1.0000 EFTS

P: Subject to approval of the Head of School.

CEMB790-21A (C) Starts Anytime

*Part-time enrolment (0.65 EFTS) is available on approval. *From 1 January 2008, international students who are residing in New Zealand on a NZ Immigration Study Visa pay the Domestic Fee for this course. International fees apply for all other courses.*

Chemical and Process Engineering

Department of Chemical and Process Engineering**ENCH 199 Workshop Training Course for Chemical and Process Engineering**

0 Points 0.0000 EFTS

Compulsory workshop training course for Chemical and Process Engineering students.

P: Subject to approval of the Dean of Engineering

ENCH199-21W (C) Whole Year (S1 and S2)

ENCH 241 Engineering Chemistry 2

15 Points 0.1250 EFTS

Organic, inorganic, analytical and physical chemistry.

P: Subject to approval of the Dean of Engineering and Forestry.

ENCH241-21S2 (C) Semester 2

ENCH 281 Principles Of Biology For Engineers

15 Points 0.1250 EFTS

An introduction to biology, bioprocessing and biotechnology for engineers.

P: Subject to approval of the Dean of Engineering and Forestry.

R: BIOL 111 (BCHM 111)

ENCH281-21S2 (C) Semester 2

ENCH 291 Mass and Energy Balances

15 Points 0.1250 EFTS

Mass and energy balance calculations are the essential parts of the solution of many complex chemical engineering problems. They assist in the planning and design of processes, in the economic evaluation of the proposed and existing processes, in process control, and in process optimization. In this course, students will learn a systematic procedure for solving mass and energy balance problems including drawing and labelling for a flowchart, performing a degree-of-freedom analysis, making appropriate chemical engineering assumptions etc. Students will be able to analytically examine and predict the mass and energy balances around single or multiple unit operation(s) involving gases and liquids, recycle, bypass or purge streams with or without chemical reactions.

P: Subject to approval of the Dean of Engineering and Forestry.

ENCH291-21S1 (C) Semester 1

ENCH 292 Heat and Mass Transfer Operations

15 Points 0.1250 EFTS

An introduction to the physics of heat-transfer and mass-transfer that underpin process technologies. The course is taught using a first principles basis to explain the underpinning concepts relevant to heat and mass transfer, and to illustrate similarities and differences between these processes. Examples from every day situations, as well as chemical engineering applications, are used to clarify the concepts taught in class.

P: Subject to approval of the Dean of Engineering and Forestry.

ENCH292-21S2 (C) Semester 2

ENCH 293 Fluid Mechanics 1

15 Points 0.1250 EFTS

This course will provide a basic understanding of the behaviour of fluids on the macro- and micro- scale, where students are able to design pipe and pumping systems for single-phase fluids. There will also be unit conversion, dimensional analysis, and scale-up.

P: Subject to approval of the Dean of Engineering and Forestry.

ENCH293-21S1 (C) Semester 1

ENCH 295 Chemical Engineering Professional Practice

15 Points 0.1250 EFTS

This course will introduce the students to the chemical engineering laboratory environment and process safety. It will also build on the professional skills introduced in ENGR101 such as sketching, ethics and report writing.

P: Subject to the approval of the Dean of Engineering and Forestry.

ENCH295-21W (C) Whole Year (S1 and S2)

ENCH 296 Chemical Engineering Thermodynamics

15 Points 0.1250 EFTS

An introduction to concepts and principles in chemical and process thermodynamics. This course includes the 1st and 2nd Laws, equilibrium and reversibility, ideal gas process calculations and refrigeration and heat pump cycles.

P: Subject to the approval of the Dean of Engineering and Forestry.

ENCH296-21S2 (C) Semester 2

ENCH 298 Chemical Engineering Mathematics

15 Points 0.1250 EFTS

Modelling, analytical and numerical mathematics for solving chemical engineering problems, including algebraic systems, ordinary and partial differential equations, complex numbers, Fourier and Laplace transforms.

P: Subject to approval of the Dean of Engineering and Forestry

ENCH298-21S1 (C) Semester 1**ENCH 390 Process Engineering Design 1**

15 Points 0.1250 EFTS

This is one of key courses in chemical engineering which covers methods for the quantitative analysis of chemical processes, including process optimisation and curve fitting, process modelling and applications, pinch analysis and sustainability assessment. It also includes a 1-day intensive course analysing why process engineers should engage with iwi and local communities, and some practical and effective guidelines on how to do this.

ENCH390-21S1 (C) Semester 1**ENCH 391 Process Systems and Control**

15 Points 0.1250 EFTS

An introduction to process dynamics and process control technology.

P: ENCH 298 (from 2016)

ENCH391-21S2 (C) Semester 2**ENCH 392 Thermodynamics And Chemical Reaction Engineering**

15 Points 0.1250 EFTS

Thermodynamics of fluids and phase equilibrium and the fundamentals of chemical reaction engineering. Thermodynamic topics covered include: volumetric properties of fluids, thermodynamic properties of pure fluids, behaviour of solutions and phase equilibria. Chemical reaction engineering topics covered include: reaction kinetics and rate equations, reactor design, collection and analysis of kinetic data, the effect of mass transfer on chemical reaction, mixing and non-ideal flow in reactors.

P: ENCH 296, ENCH 241

ENCH392-21S1 (C) Semester 1**ENCH 393 Fluid Mechanics and Heat Transfer**

15 Points 0.1250 EFTS

This is a key course in chemical engineering covering fluid mechanics and industrial applications, particle technology and heat transfer. These topics provide the knowledge and tools which enable the design and analysis of many chemical engineering processes.

P: ENCH 292, ENCH 293

ENCH393-21S1 (C) Semester 1**ENCH 394 Process Engineering Design 2**

15 Points 0.1250 EFTS

This course introduces students to key concepts of process design, including the detailed design of unit operations. The course builds on the topics covered in the 1st Professional year and begins to explore how unit operations can interact to shift the overall optimal operating conditions away from, say, the conditions that optimise a reactor alone. The course also extends the process safety concepts introduced in ENCH295 to cover more quantitative analysis techniques and provides an introduction to materials engineering for chemical engineers.

P: ENCH 291

ENCH394-21S2 (C) Semester 2**ENCH 395 Process Engineering Laboratories**

15 Points 0.1250 EFTS

Laboratory and pilot-plant experiments, design and analysis of experiments using statistical methods, and computational tools useful for analysing data.

P: ENCH 295

ENCH395-21W (C) Whole Year (S1 and S2)**ENCH 396 Chemical Engineering Separations 1**

15 Points 0.1250 EFTS

Chemical engineering separation operations including humidification/dehumidification, drying, membrane separations, leaching and washing, crystallisation, ion exchange, distillation, gas absorption and liquid-liquid extraction.

P: ENCH 292

ENCH396-21S1 (C) Semester 1**ENCH 475 Independent Course of Study**

15 Points 0.1250 EFTS

P: Subject to approval of the Head of Department.

ENCH475-21W (C) Whole Year (S1 and S2)**ENCH475-21S1 (C) Semester 1****ENCH475-21S2 (C) Semester 2***Limited entry. See limitation of entry regulations.***ENCH 482 Bioprocess Engineering 2**

15 Points 0.1250 EFTS

This course focuses on the principles of bioseparation processes: cellular fractionation, filtration, chromatography, electrophoresis, immunoaffinity techniques and their application to various types of biomolecules. It includes a hands-on laboratory to separate a target microbially-produced protein by chromatography and assay the purity by electrophoresis.

P: ENGR 407

ENCH482-21S1 (C) Semester 1**ENCH 483 Advanced Energy Processing Technologies and Systems**

15 Points 0.1250 EFTS

The course aims to educate students on the basic and creative concepts of advanced energy technologies and its systems integration. By covering the different areas of emerging technologies from fossil fuel conversion, ultraclean fuel production and utilisation, solar photovoltaic conversion to hydrogen and energy storage, the course prepares students for these revolutionary technologies. Importantly, rather than focusing solely on ultimately renewable energy solutions, the course incorporates the complementary views of fossil but ultraclean fuel technologies, as well as their importance as intermediate energy solutions.

P: ENGR 404

ENCH483-21S1 (C) Semester 1**ENCH 484 Advanced Modelling and Simulation**

15 Points 0.1250 EFTS

This course provides a detailed introduction to numerical methods used in chemical engineering. The course includes an introduction to the theory of numerical methods, optimization theory, deterministic and stochastic modeling, and empirical parameter estimation for chemical processes, as well as practical guidance on the implementation of these tools to a variety of problems.

P: ENCH 391 Process Systems and Control

ENCH484-21S1 (C) Semester 1**ENCH 494 Process Engineering Design 3**

30 Points 0.2500 EFTS

A group project, where students have the opportunity to go through all the steps of designing a process plant including feedstock and process selections, mass and energy balances, control strategy, project economics, process safety, environmental impact, and community engagement.

P: a pass in all compulsory Second Professional Year courses, ENCH 496 and ENCH 497

ENCH494-21S2 (C) Semester 2**ENCH 495 Research Project**

30 Points 0.2500 EFTS

An independent research project introducing students to planning a research project, literature searching, design of equipment, development of project plan/timeline, laboratory work and/or computer simulations as well as presentation and research report writing.

P: a pass in all compulsory Second Professional Year courses

ENCH495-20SU2 (C) Summer (Nov 20)**ENCH495-21W (C) Whole Year (S1 and S2)****ENCH 496 Advanced Separations**

15 Points 0.1250 EFTS

Advanced topics in separation methods including: packed column and multicomponent distillations, evaporation, advanced membrane separations, adsorption, supercritical technology, separations in environmental engineering, sedimentation and centrifugation.

P: ENCH 396

ENCH496-21S1 (C) Semester 1**ENCH 497 Process Management**

15 Points 0.1250 EFTS

Engineering economics and finance, project management, design and investment decisions, ethics, and safety in the process industry. The course loosely follows the life cycle of the financial and engineering management of a processing facility from initial planning through to full production.

ENCH497-21S1 (C) Semester 1**ENGR 401 Computational Fluid Dynamics**

15 Points 0.1250 EFTS

Theoretical and practical aspects of Computational Fluid Dynamics, including the theory of fluid flow equations, numerical methods of solving these equations, turbulence, and experience with a commercial CFD software.

P: ENME 304 or ENME 314, or ENCH 393, or ENCN 342

ENGR401-21S1 (C) Semester 1

ENGR 404 Emerging Energy Technologies and Management

15 Points 0.1250 EFTS

This course explores various emerging technologies related to the needs for energy, including the supply of renewable energy. This includes topics such as combined heat and power systems, biomass and thermo-chemical processing, wind, geothermal and solar energy processes. This course will also discuss the applications of catalysis in the production of energy carriers, starting at a basic level, and includes sections on adsorption and surface science, catalytic kinetics, evaluation on the modern catalytic processes in oil/gas refinery and studying key characteristics of emerging nanomaterials that enable them to become an effective catalyst in energy applications.

P: ENCH 291 or subject to approval of the Director of Studies.

R: ENME 405, ENME 605

ENGR404-21S2 (C) Semester 2**ENGR 405 Industrial Pollution Control**

15 Points 0.1250 EFTS

This course aims to advance students' abilities in applying and evaluating the physico-chemical treatment processes for industrial wastewater pollution control, air pollution, and contaminated groundwater remediation, as well as to expose the student to other less frequent pollution sources, such as noise pollution.

P: Subject to approval of the Director of Studies

ENGR405-21S1 (C) Semester 1**ENGR 407 Bioprocess Engineering 1**

15 Points 0.1250 EFTS

Engineering biochemistry covering enzyme kinetics, metabolism and applied molecular biology.

P: ENCH 281 or subject to approval of the Director of Studies

ENGR407-21S2 (C) Semester 2**Tāura | Tāura | Postgraduate**

Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.

ENCH 690 Chemical and Process Engineering M.E. Thesis

120 Points 1.0000 EFTS

P: Subject to approval of the Head of Department.

ENCH690-21A (C) Starts Anytime

Part-time enrolment (0.65 EFTS) is available on approval.

ENCH 790 Chemical and Process Engineering PhD

120 Points 1.0000 EFTS

P: Subject to approval of the Head of Department.

ENCH790-21A (C) Starts Anytime

Part-time enrolment (0.65 EFTS) is available on approval. *From 1 January 2008, international students who are residing in New Zealand on a NZ Immigration Study Visa pay the Domestic Fee for this course. International fees apply for all other courses.

Chemistry**School of Physical and Chemical Sciences**

Note: Timetable information for Chemistry courses will be available at www.canterbury.ac.nz/courses from 1 February 2010.

CHEM 111 Chemical Principles and Processes

15 Points 0.1250 EFTS

Atoms and the periodic table; chemical bonding; reduction and oxidation reactions; properties of gases; introduction to thermodynamics; kinetics; chemical equilibrium; Gibbs energy and the second law of thermodynamics; aqueous chemistry; acid-base equilibrium.

P: (1) NCEA: at least 14 credits NCEA Level 3 Chemistry, or (2) CIE: at least D grade in CIE AL Chemistry or A grade in CIE ASL Chemistry, or (3) IB: at least Grade 4 in IB HL Chemistry or Grade 6 in IB SL Chemistry, or (4) CHEM 114, or at least B Grade in BRDG 023.

CHEM111-21S1 (C) Semester 1**CHEM111-21S2 (C) Semester 2****CHEM 112 Structure and Reactivity in Chemistry and Biochemistry**

15 Points 0.1250 EFTS

Structure, isomerism, stereochemistry, synthesis, and reaction mechanisms in organic chemistry; transition metal chemistry and electrochemistry.

P: (1) NCEA: at least 14 credits NCEA Level 3 Chemistry, or (2) CIE: at least D grade in CIE AL Chemistry or A grade in CIE ASL Chemistry, or (3) IB: at least Grade 4 in IB HL Chemistry or Grade 6 in IB SL Chemistry, or (4) CHEM 114, or at least B Grade in BRDG 023.

R: BCHM 112

EQ: BCHM 112

CHEM112-21S2 (C) Semester 2**CHEM 114 Foundations of Chemistry**

15 Points 0.1250 EFTS

A preparatory course for biological sciences and other non-specialists, assuming minimal preparation in Chemistry. There is an emphasis on the properties of materials and biological systems. Atoms, molecules, mole concept, chemical equations, stoichiometry; electron configuration, bonding; molecular structure; energy changes and kinetic factors in chemical reactions; aqueous chemistry; introductory organic chemistry.

R: (1) NCEA: 14 credits NCEA Level 3 Chemistry, or (2) CIE: at least D grade in CIE AL Chemistry or A grade in CIE ASL Chemistry, or (3) IB: at least Grade 4 in IB HL Chemistry or Grade 6 in IB SL Chemistry, or (4) at least B Grade in BRDG 022 or BRDG 023. Students who have been credited with any of CHEM 111, CHEM 112 or BCHM 112 cannot subsequently be credited with CHEM 114. Concurrent enrolment in CHEM 114 and CHEM 111 is not permitted.

CHEM114-21S1 (C) Semester 1**CHEM 211 Molecules**

15 Points 0.1250 EFTS

Atoms and covalent molecules; molecular spectroscopy and characterisation; periodicity and trends: the modern periodic table.

P: CHEM 111

CHEM211-21S1 (C) Semester 1**CHEM 212 Chemical Reactivity**

15 Points 0.1250 EFTS

Structures and properties of organic and biological molecules; application of kinetics and thermodynamics to organic and biochemical reactions; substitution and elimination chemistry; bioinorganic chemistry and electrochemistry

P: CHEM 112 or BCHM 112 or ENCH 241

R: BCHM 212

EQ: BCHM 212

CHEM212-21S1 (C) Semester 1**CHEM 242 Organic Chemistry**

15 Points 0.1250 EFTS

Reaction mechanisms; synthesis and biosynthesis of organic compounds.

P: CHEM 212 or BCHM 212

R: BCHM 206

EQ: BCHM 206

CHEM242-21S2 (C) Semester 2**CHEM 246 Introduction to Medicinal Chemistry**

15 Points 0.1250 EFTS

This course is an introduction to the basic concepts of Medicinal Chemistry. The course will consider how many drugs/pharmaceuticals work, correlating their precise molecular structure with that of their biological targets. The course will also introduce pharmacokinetics, and consider how Medicinal Chemists can optimize the molecular properties of a drug molecule to produce compounds that display enhanced biological effects in living organisms.

P: CHEM 212 or BCHM 212

CHEM246-21S2 (C) Semester 2**CHEM 251 Foundations of Materials Science and Nanotechnology**

15 Points 0.1250 EFTS

This course covers foundational topics in materials science and nanotechnology, including molecular symmetry, quantum mechanics, transition metal chemistry and electromagnetic properties of materials.

P: CHEM 211 or (CHEM 111 and PHYS 102)

R: CHEM 241 and CHEM 245

CHEM251-21S2 (C) Semester 2**CHEM 255 Contemporary Chemistry: Technology, Environment, and Health**

15 Points 0.1250 EFTS

This course focuses on the interface between chemical technology, the environment and health. Case-studies examine contemporary challenges of optimising the benefits of chemical technology, including such topics as "green chemistry", technology spin-offs and environmental impact.

P: 30 points from CHEM 111, CHEM 112, BCHM 112, CHEM 211 and CHEM 212.

R: CHEM 245

RP: CHEM 281

CHEM255-21S2 (C) Semester 2**CHEM 281 Practical Chemistry**

15 Points 0.1250 EFTS

This course is required to major in chemistry and preferably it is taken in conjunction with other 200-level chemistry courses. The topics covered in this course are: preparative organic and inorganic chemistry; purification of chemicals including chromatography; practical spectroscopy and basic analytical methodology; data analysis, errors and Excel competence. Kinetic and thermodynamic measurements on solutions.

P: CHEM 111 or CHEM 112 (BCHM 112)

Chemistry

R: BCHM 281

CHEM281-21S1 (C) Semester 1

CHEM 327 Special Topic

15 Points 0.1250 EFTS

Selected lectures, tutorials and assignments from courses relevant to chemistry. Exchange students and new enrolments only may enrol in this course. Credits for this course may not be used to satisfy the requirements of a University of Canterbury degree. Internally assessed.

P: Entry subject to approval of the Head of Department.

CHEM327-21S1 (C) Semester 1

CHEM327-21S2 (C) Semester 2

CHEM 328 Special Topic

15 Points 0.1250 EFTS

Selected lectures, tutorials and assignments from courses relevant to chemistry. Exchange students and new enrolments only may enrol in this course. Credits for this course may not be used to satisfy the requirements of a University of Canterbury degree. Internally assessed.

P: Entry subject to approval of the Head of Department.

CHEM328-21S1 (C) Semester 1

CHEM328-21S2 (C) Semester 2

CHEM 329 Special Topic: Introductory Research in the Chemical Sciences

15 Points 0.1250 EFTS

This course involves a research project (approximately 150 hours) in the Chemical Sciences under the supervision of a staff member from the School of Physical and Chemical Sciences. This course may not be used to satisfy the requirements for a Chemistry major, nor the requirements for entry to postgraduate study in Chemistry.

P: 45 points from CHEM 211, CHEM 212 (BCHM 212), CHEM 281 (BCHM 281), CHEM 251, CHEM 242 (BCHM 206), CHEM 255. Entry subject to a supervisor approved by the Head of School, being available.

CHEM329-20SU2 (C) Summer (Nov 20)

CHEM329-21SU1 (C) Summer (Jan 21)

CHEM329-21S1 (C) Semester 1

CHEM329-21S2 (C) Semester 2

CHEM 333 Chemical Physics and Spectroscopy

15 Points 0.1250 EFTS

This course develops concepts and models needed to realistically describe and characterize useful properties of molecules and materials. Topics include dynamic electrochemistry, thermodynamics, statistical mechanics and spectroscopy, photochemistry and lasers

P: CHEM 251 or CHEM 243

CHEM333-21S2 (C) Semester 2

CHEM 335 Organometallic Chemistry and Catalysis

15 Points 0.1250 EFTS

This course covers important concepts in organometallic chemistry and catalysis, including organometallic reactivity, homogeneous catalysis, heterogeneous catalysis, nanostructured materials, and industrial aspects of catalysis.

P: CHEM 251 or CHEM 241

R: CHEM 321

CHEM335-21S2 (C) Semester 2

CHEM 336 Supramolecular Chemistry and Molecular Engineering

15 Points 0.1250 EFTS

This course covers important concepts in supramolecular chemistry molecular engineering, including the synthesis of organic building blocks and assembly of complex molecular architectures and functional molecules. Concepts include the role of non-covalent bonding in supramolecular chemistry and structure-function relationships in molecular properties.

P: (CHEM 242 or BCHM 206) and (CHEM 251 or CHEM 241)

R: CHEM 322

CHEM336-21S1 (C) Semester 1

CHEM 337 Organic Synthesis

15 Points 0.1250 EFTS

This course covers important concepts in organic synthesis, including modern synthetic reagents and transformations; reactive intermediates in synthesis; stereoselective synthesis.

P: CHEM 242 or BCHM 206

R: CHEM 322

CHEM337-21S2 (C) Semester 2

CHEM 338 Chemical Biology

15 Points 0.1250 EFTS

This course covers important concepts in chemical biology: the application of chemical techniques, tools, analyses, and synthetic chemicals, to the study and manipulation of the

molecular processes taking place within cells.

P: CHEM 212 or BCHM 212

R: BCHM 338, CHEM 325, BCHM 302

RP: CHEM 242 or BCHM 206, and/or BCHM 202 (BIOL 231)

EQ: BCHM 338

CHEM338-21S1 (C) Semester 1

CHEM 339 Bioinorganic and Bioorganic Chemistry

15 Points 0.1250 EFTS

This course covers the chemical principles underlying selected important biological processes. The topics covered will be: bio-inorganic chemistry and electrochemistry; metal ions in biology & toxicology; case-studies in contemporary bio-organic chemistry.

P: CHEM 212 or BCHM 212.

R: BCHM 339, CHEM 325, BCHM 302

RP: CHEM 242 or BCHM 206

EQ: BCHM 339

CHEM339-21S2 (C) Semester 2

CHEM 340 Environmental Chemistry and Toxicology

15 Points 0.1250 EFTS

Environmental chemistry and toxicology covers the study of chemistry in the biosphere and the impact of humankind on them. The course will cover: the properties of atmospheric, terrestrial and aquatic systems; environmental pollutants, and the analytical methods used to monitor them; mechanisms of toxicity of environmental pollutants and their impact on the environment; assessment of environmental risks.

P: 30 points from CHEM 281; BCHM 281; CHEM 211; CHEM 255; WATR 201

R: CHEM 324

CHEM340-21S1 (C) Semester 1

CHEM 342 Aromatic, heterocyclic, and pharmaceutical chemistry

15 Points 0.1250 EFTS

This course is about the structure and reactivity of aromatic and heterocyclic molecules, and how this reactivity is used in the synthesis of important and interesting compounds, particularly modern pharmaceuticals / drugs. The topics covered by this course are: aromatic chemistry, heterocyclic chemistry and pharmaceutical chemistry.

P: CHEM 242 or BCHM 206

R: CHEM 322, CHEM 362

CHEM342-21S1 (C) Semester 1

CHEM 343 Materials Science and Nanotechnology

15 Points 0.1250 EFTS

This course applies the fundamental physical and chemical principles learnt previously to predict and explain the properties of materials at the nano-scale. Topics include nanotechnology, materials fabrication and characterization, polymers, and applied computational chemistry.

P: CHEM 251 or CHEM 243

CHEM343-21S1 (C) Semester 1

CHEM 381 Advanced Synthetic Techniques

15 Points 0.1250 EFTS

Synthetic organic and inorganic chemistry incorporating library skills, and modern structural elucidation techniques such as 2D-NMR and X-ray crystallography.

P: (CHEM 281 or BCHM 281) and CHEM 212.

RP: Additional 30 points from CHEM 211, CHEM 242 and CHEM 251.

CHEM381-21S1 (C) Semester 1

CHEM 382 Instrumental Methods

15 Points 0.1250 EFTS

Applications of modern instrumental techniques to problems in fundamental and analytical chemistry. This laboratory course includes a series of set experiments and project work. Emphasis is on data analysis, communication skills and self-directed investigations.

P: (CHEM 281 or BCHM 281) and (CHEM 211 or CHEM 251 or (CHEM 111 and CHEM 255)).

RP: 30 points from CHEM 211 - CHEM 255.

CHEM382-21S2 (C) Semester 2

Tāura | Tāura | Postgraduate

Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.

CHEM 415 Special Topic

15 Points 0.1250 EFTS

P: Subject to the approval of the Head of Department.

CHEM415-21W (C) Whole Year (S1 and S2)

CHEM 417 Special Topic

15 Points

0.1250 EFTS

P: Subject to the approval of the Head of Department.

CHEM417-21S1 (C)**Semester 1****CHEM 430 Research Methods 1: Research Proposal and Ethics**

15 Points

0.1250 EFTS

This course comprises a series of workshops of advanced study in contemporary research methodology in the chemical sciences, such as research and professional scientific communication skills including written, visual and oral communication; directed inquiry and problem solving skills; critical analysis and in-depth studies in specific specialised areas of contemporary chemical research. The topics covered by this course are: - Writing a research proposal - Writing a quality assessment plan for research activities - Ethics of publishing - Ethics of research

CHEM430-21S1 (C)**Semester 1****CHEM 431 Research Methods 2: Literature Review and Poster Design**

15 Points

0.1250 EFTS

This course comprises a series of workshops of advanced study in contemporary research methodology in the chemical sciences, such as research and professional scientific communication skills including written, visual and oral communication; directed inquiry and problem solving skills; critical analysis and in-depth studies in specific specialised areas of contemporary chemical research. The topics covered by this course are: - Writing a literature review - Designing and presenting a poster

CHEM431-21S2 (C)**Semester 2****CHEM 432 Organic Chemistry**

15 Points

0.1250 EFTS

This course is about the organic chemistry at a higher level. The topics covered by this course are: - carbohydrate chemistry - pericyclic reactions, and their applications in synthesis - applications of transition metal catalysis in synthesis

P: CHEM 337 or CHEM 322

RP: CHEM 337 or CHEM 322

CHEM432-21S1 (C)**Semester 1****CHEM 433 Drug Development and Toxicology**

15 Points

0.1250 EFTS

If you are interested in human and animal health, how biological systems work at the molecular level and are passionate about how you can apply your science skills and knowledge in health-related areas, then this is the course for you. In this course we introduce you to the basic concepts of drug development. Starting with an overview of drug development from disease to practical real-world treatments, the course then focuses on key early aspects in the drug development process; molecular basis for disease, target identification and lead development. We introduce the modern shift to biopharmaceuticals, and important in-vitro drug-testing techniques. We then address toxicological considerations, which are critical in drug development. Self-directed learning topics will reinforce the concepts presented and allow you to extend your understanding into the later stages of the drug development (i.e. regulatory, toxicological, environmental and clinical testing considerations).

P: CHEM 337 or CHEM 322 or BCHM 338

RP: CHEM 337 or CHEM 322 or BCHM 338

CHEM433-21S2 (C)**Semester 2****CHEM 434 Kinetics and Spectroscopy**

15 Points

0.1250 EFTS

If you want to really understand chemistry, this is the course for you: it applies the fundamental physical and chemical principles developed in CHEM333 and CHEM343 to predict, explain and understand properties, structure and reactivity at a microscopic level. The topics covered by this course are: - Spectroscopy and quantum mechanics - Advanced reaction kinetics

P: CHEM 333 or CHEM 343

RP: CHEM 333 or CHEM 343

CHEM434-21S1 (C)**Semester 1****CHEM 435 Advanced Materials**

15 Points

0.1250 EFTS

This course is about the fabrication, characterisation and application of advanced materials. Advanced materials cover a wide range of disciplines and topics, and this course will focus on the fabrication, characterisation and applications of materials in chemistry and materials science, with hands-on materials synthesis and characterisation to reinforce the theory.

P: CHEM 336 or CHEM 321

RP: CHEM 336 or CHEM 321

CHEM435-21S2 (C)**Semester 2****CHEM 436 Sustainable Chemistry: Catalysis, Energy and Green Materials**

15 Points

0.1250 EFTS

Sustainable chemistry is basically doing more with less: reducing the environmental impact of products and processes, optimising or rather completely avoiding the use of limited raw materials and minimising waste. This course will introduce the importance of catalysis, energy

and green materials in the context of reducing the impact that synthetic chemistry has on our planet.

P: CHEM 335 or CHEM 321

RP: CHEM 335 or CHEM 321

CHEM436-21S1 (C)**Semester 1****CHEM 437 Supramolecular Chemistry**

15 Points

0.1250 EFTS

This course is about the supramolecular chemistry at a higher level. Supramolecular chemistry is an area of synthetic chemistry that aims to construct complex functional chemicals with tailored properties. Supramolecular chemistry involves the use of non-covalent interactions (such as coordination bonds, hydrogen bonding, -stacking etc.) to form well-defined molecular assemblies. These larger well-defined structures can be created with geometrically interesting shapes and electronic properties. In this course, students will develop an understanding of the synthesis of compounds suitable for supramolecular chemistry and how these can be assembled into larger ensembles, such as host-guest complexes, interlocked molecules, molecular machines, coordination polymers, metal-organic frameworks and covalent organic frameworks. The properties and importance of intermolecular interactions and their translation to functions in chemistry as well in bio-, nano- and materials science.

P: CHEM 336 or CHEM 321

RP: CHEM 336 or CHEM 321

CHEM437-21S2 (C)**Semester 2****CHEM 473 Special Topic**

30 Points

0.2500 EFTS

P: Subject to approval of the Head of Department.

CHEM473-21S1 (C)**Semester 1****CHEM473-21W (C)****Whole Year (S1 and S2)****CHEM473-21S2 (C)****Semester 2****CHEM 474 Special Topic**

30 Points

0.2500 EFTS

P: Subject to approval of the Head of Department.

CHEM474-21S1 (C)**Semester 1****CHEM474-21W (C)****Whole Year (S1 and S2)****CHEM474-21S2 (C)****Semester 2****CHEM 480 Research Project**

30 Points

0.2500 EFTS

The CHEM480 Research Project involves a programme of experimental study in a research-active laboratory under the supervision of an academic member of staff within the Chemistry Department. The experimental data obtained are then presented in the form of a written project report which, after submission, is subjected to an oral defence. The project report details the background to the research, the methods employed, the results obtained, an analysis of the results in the context of the field and a bibliography. The learning outcomes of CHEM480 will enable students to write and compile a scientific report in a format appropriate for the discipline; show understanding of scientific methods relevant to their research project; obtain, analyse and present original research data; interpret and critically appraise their own and other research data; explain the relationship of their findings to other work in the field; and respond to questions on their report in a manner that shows mastery of the content and some knowledge of related areas. The CHEM480 Research Project provides excellent preparation for students intending to enrol in further postgraduate research. Students enrolling in this course must also enrol in course CHEM421 Advanced Topics in Chemistry 1.

P: Subject to approval of the Head of Department.

CHEM480-21S1 (C)**Semester 1****CHEM480-21W (C)****Whole Year (S1 and S2)****CHEM480-21S2 (C)****Semester 2****CHEM 690 MSc Thesis**

120 Points

1.0000 EFTS

P: Subject to approval of the Head of Department.

CHEM690-21A (C)**Starts Anytime***Part-time enrolment (0.65 EFTS) is available on approval.***CHEM 790 Chemistry PhD**

120 Points

1.0000 EFTS

P: Subject to approval of the Head of Department.

CHEM790-21A (C)**Starts Anytime**

*Part-time enrolment (0.65 EFTS) is available on approval. *From 1 January 2008, international students who are residing in New Zealand on a NZ Immigration Study Visa pay the Domestic Fee for this course. International fees apply for all other courses.*

Child and Family Psychology

School of Health Sciences

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CFPY 501 Models of Practice in Child and Family Psychology

36 Points 0.3000 EFTS

This course provides initial professional scholarship and training in Child and Family Psychology, with particular focus on models of practice. Using the Scientist-Practitioner model as a reference point, two themes are emphasised: "What is a Child and Family Psychologist?"; and "the research-practice nexus".

P: (i) (i) Enrolled in the Master of Arts in Child and Family Psychology, or Master of Science in Child and Family Psychology or an approved Master of Education or their equivalents. (ii) CFPY 601, CFPY 602, CFPY 603, CFPY 604 and HLTH 472 (iii) An approved 15-point, 0.125 EFTS postgraduate or honours-level research methods course (2) Subject to approval of the Head of School of Health Sciences.

C: CFPY 502

R: EDUC 623, HLTH 670, EDUC 624, HLTH 671

EQ: EDUC 623, HLTH 670

CFPY501-20SU2 (C) Summer (Nov 20)

Limited entry. See limitation of entry regulations.

CFPY 502 Professional Skills and Practicum

39 Points 0.3250 EFTS

This course contains the Child and Family Psychology Practicum and an academic programme which informs it. This includes practical training in skills specific to practice as a registered psychologist, the practicum itself and clinical work associated with it. In addition it contains academic work relevant to the programme such as interpretation of cognitive assessments, taxonomy for psychopathology, and clinical reasoning (formulation). In addition Problem-Based Learning exercises are an integral part of this course.

P: (i) (i) Enrolled in the Master of Arts in Child and Family Psychology, or Master of Science in Child and Family Psychology or an approved Master of Education or their equivalents. (ii) CFPY 601, CFPY 602, CFPY 603, COUN 671 and HLTH 472 (iii) An approved 15-point, 0.125 EFTS postgraduate or honours-level research methods course. (2) Subject to approval of the Head of the School of Health Sciences. (3) Selection will be based on academic record, personal suitability and an interview. The closing date for applications is normally October 1st in the year prior to enrolment.

R: EDUC 623, HLTH 670, EDUC 624, HLTH 671

EQ: EDUC 624, HLTH 671

CFPY502-21W (C) Whole Year (S1 and S2)

Limited entry. See limitation of entry regulations.

CFPY 503 Advanced Academic Development

30 Points 0.2500 EFTS

Further academic study relevant to the area of Child and Family Psychology

P: (i) Subject to the approval of the Head of the School of Health Sciences, (2) EDUC 623 and EDUC 624 or HLTH 670 and HLTH 671 or CFPY 501 and CFPY 502

R: EDUC 501, HLTH 501

EQ: EDUC 501, HLTH 501

CFPY503-21FY (C) Full Year (February to February)

Limited entry. See limitation of entry regulations.

CFPY 504 Advanced Professional Practice in Child and Family Psychology

60 Points 0.5000 EFTS

This course directs the candidate's experiences in their approved 1500 hour internship in order to ensure a wide range of experience with children and their families and to assist their preparation of case-studies and their professional development plan.

P: (i) Subject to the approval of the Head of the School of Health Sciences, (2) EDUC 623 and EDUC 624 or HLTH 670 and HLTH 671 or CFPY 501 and CFPY 502

R: EDUC 502, HLTH 502

EQ: EDUC 502, HLTH 502

CFPY504-21FY (C) Full Year (February to February)

Limited entry. See limitation of entry regulations.

CFPY 505 Structuring and Examining Professional Practice

30 Points 0.2500 EFTS

Preparation for, presentation and defence of professional work in formal settings.

P: (i) Subject to the approval of the Head of the School of Health Sciences, (2) EDUC 623 and EDUC 624 or HLTH 670 and HLTH 671 or CFPY 501 and CFPY 502

R: EDUC 503, HLTH 503

EQ: EDUC 503, HLTH 503

CFPY505-21FY (C) Full Year (February to February)

Limited entry. See limitation of entry regulations.

CFPY 601 Disorders of Childhood and Adolescence

30 Points 0.2500 EFTS

The nature, prevalence, causes and current intervention relating to disorders and disabilities arising during the developmental period.

P: Subject to the approval of the Head of the School of Health Sciences

R: EDEM 661, EDUC 412

CFPY601-21W (C) Whole Year (S1 and S2)

CFPY 602 Child and Adolescent Development: Research, Contexts, and Applications

30 Points 0.2500 EFTS

This course aims to provide an advanced understanding of child and adolescent development by focusing on issues and concerns that may affect children and families across multiple developmental contexts. Students will examine key developmental theories as applied to a range of topics and gain valuable research and critical thinking skills through case studies, literature reviews, and group presentations.

P: Subject to the approval of the Head of the School of Health Sciences

R: EDEM 662, EDUC 416, PSYC 413

CFPY602-21W (C) Whole Year (S1 and S2)

CFPY 603 Introduction to Interventions

30 Points 0.2500 EFTS

This course provides an overview of interventions for children and adolescents with commonly occurring childhood disorders, and behaviour / learning difficulties (anxiety, phobia, depression, antisocial behaviour, ADHD, dyslexia, dyscalculia, dyspraxia). We will cover how to recognise these disorders, what is known about their causes, and how to plan and evaluate interventions.

We will examine what the current academic literature tells us about effective evidence-based interventions, and challenges and issues in intervention work. The course introduces students to multiple perspectives on disorders and interventions, including cognitive behavioural therapy (CBT) and applied behaviour analysis (ABA). Introduction to Interventions is one of the compulsory first year courses in the Child and Family Psychology programme, and is also suitable for students who are pursuing postgraduate qualifications in special education.

P: Subject to approval of the Head of School of Health Sciences

R: EDEM 663, EDUC 421

CFPY603-21W (C) Whole Year (S1 and S2)

CFPY 690 MA Child and Family Psychology Thesis

120 Points 1.0000 EFTS

P: (i) CFPY 601-603; HLTH 472; either CFPY 604 or COUN 671; and one of EDEM 695-697, or HLTH 462, or PSYC 460, or PSYC 461. (ii) Subject to approve of the Head of School of Health Sciences

CFPY690-21A (C) Starts Anytime

Part-time enrolment (0.65 EFTS) is available on approval.

CFPY 695 MSc Child and Family Psychology Thesis

120 Points 1.0000 EFTS

P: (i) CFPY 601-603; HLTH 472; either CFPY 604 or COUN 671; and one of EDEM 695-697, or HLTH 462, or PSYC 460, or PSYC 461. (ii) Subject to approve of the Head of School of Health Sciences

CFPY695-21A (C) Starts Anytime

Chinese

School of Language, Social and Political Sciences

CHIN 151 Chinese Language 1-A

15 Points 0.1250 EFTS

A beginner's level course, focusing on the four basic language skills of reading, writing, speaking and listening, designed for students with little or no previous knowledge of the Chinese language.

P: Students who have learnt more than 150 Chinese characters or have a level of spoken Chinese equivalent to the level reached by the students at the very end of this course will not be admitted to this course.

R: CHIN 101. Students who have learnt more than 150 Chinese characters or have a level of spoken Chinese equivalent to the level reached by the students at the very end of this course will not be admitted to this course.

CHIN151-21S1 (C) Semester 1

CHIN151-21S1 (D) Semester 1

CHIN 152 Chinese Language 1-B

15 Points 0.1250 EFTS

Following CHIN151 and still focusing on the four basic language skills of reading, writing, speaking and listening, this course teaches how to conduct simple conversations, and read and write simple texts in Chinese at an elementary level, with an adequate cultural understanding of China.

P: CHIN 151 or placement test. Students who have learnt more than 300 Chinese characters, or have a level of spoken Chinese equivalent to the level reached by the students at the very end of this course, will not be admitted to this course.

R: CHIN 101, CHIN 105. Students who have learnt more than 300 Chinese characters, or have a level of spoken Chinese equivalent to the level reached by the students at the very end of this course, will not be admitted to this course.

RP: This course is designed for students who have completed CHIN 151 or a placement test.

CHIN152-21S2 (C)	Semester 2
CHIN152-21S2 (D)	Semester 2

CHIN 155 Understanding China

15 Points 0.1250 EFTS

This course provides basic understanding of China and Chinese culture through selected topical issues about China. The course will be taught in English; all prescribed readings and assessments (writing and spoken) are in English.

CHIN155-21S2 (C)	Semester 2
CHIN155-21S2 (D)	Semester 2

CHIN 206 Global China on Screen

15 Points 0.1250 EFTS

Like in the West, Chinese cinema has held a significant share in the cultural industry since the first film was made in China in 1905. Being a cultural product, film has always been seen as reflection of its contemporary culture, despite various aspects it might have taken. Taking primarily a Cultural Studies approach, this course introduces Chinese culture, especially a series of its contemporary phenomena by surveying Chinese cinema. The course will be taught in English and all Chinese films are subtitled. By viewing the films in class and many more available in the well-resourced UC library on the course's recommendation and students' own interests, the course encourages students to further develop their study in one or more of the following areas: Studies of Chinese culture and society; Cross-cultural studies with a focus on China/Asia and beyond; Cultural studies with a special emphasis on postmodernism (including postcolonialism) and Third World culture; Film studies focusing on national cinema. CHIN206 and CINE215 are the same course.

P: Any 15 points at 100 level from CHIN or CINE, or any 60 points at 100 level from the Schedule V of the BA.

R: CINE 215, CHIN 306, CULT 334

EQ: CINE 215 and CHIN 306

CHIN206-21S1 (C)	Semester 1
CHIN206-21S1 (D)	Semester 1

CHIN 251 Chinese Language 2-A

15 Points 0.1250 EFTS

This course, following CHIN152 and still focusing on the four basic language skills of reading, writing, speaking and listening, is a Chinese language course teaching how to conduct daily and social conversations, and to read and write texts in Chinese at an early intermediate level, with an adequate cultural understanding of China.

P: CHIN 152 or placement test. Students who have learnt more than 450 Chinese characters, or have a level of spoken Chinese equivalent to the required achievement of students when finishing CHIN 251.

R: CHIN 201. Students who have learnt more than 450 Chinese characters, or have a level of spoken Chinese equivalent to the required achievement of students when finishing CHIN 251.

RP: This course is designed for students who have completed CHIN 152 or equivalent.

CHIN251-21S1 (C)	Semester 1
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CHIN 252 Chinese Language 2-B

15 Points 0.1250 EFTS

This course, following CHIN251 and still focusing on the four basic language skills of reading, writing, speaking and listening, is a Chinese language course, teaching how to communicate Chinese in social and semi-formal situations at an intermediate level, with an adequate cultural understanding of China.

P: CHIN 251 or placement test. Students who have learnt more than 600 Chinese characters, or have a level of spoken Chinese equivalent to the required achievement of students when finishing CHIN 252.

R: CHIN 201. Students who have learnt more than 600 Chinese characters, or have a level of spoken Chinese equivalent to the required achievement of students when finishing CHIN 252.

RP: This course is designed for students who have completed CHIN 251 or equivalent.

CHIN252-21S2 (C)	Semester 2
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CHIN 306 Global China on Screen

30 Points 0.2500 EFTS

A survey of Chinese cinema - the first one hundred years of the Chinese film industry, major Chinese film genres, social implications of film and the Chinese culture reflected through film. The course is taught in English and all Chinese films are subtitled.

P: Any 30 points at 200 level from CHIN, CINE, or CULT, or any 60 points at 200 level from the Schedule V of the BA.

R: CINE 215, CHIN 206 and CULT 334

EQ: CULT 334

CHIN306-21S1 (C)	Semester 1
CHIN306-21S1 (D)	Semester 1

CHIN 351 Chinese Language 3-A

30 Points 0.2500 EFTS

This course, following CHIN252 and still focusing on the four basic language skills of reading,

writing, speaking and listening, teaches how to perform semi-formal to formal conversations, and to read and write texts in Chinese at an early advanced level, with an adequate cultural understanding of China.

P: CHIN 252 or placement test.

R: CHIN 301. This course is not designed for students who are literate in Chinese and/or fluent speakers of Mandarin. Such students may not enrol in this course without the permission of the programme director. It is granted only if the course is considered appropriate to the level of competence of the student.

CHIN351-21S1 (C)	Semester 1
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CHIN 352 Chinese Language 3-B

30 Points 0.2500 EFTS

This course, following CHIN351 and still focusing on the four basic language skills of reading, writing, speaking and listening, teaches how to perform formal conversations, and to read and write texts in Chinese at an advanced level, suitable in most study and work situations in China, when adequate supports are available.

P: CHIN 351 or placement test.

R: CHIN 301. This course is not designed for students who are literate in Chinese and/or fluent speakers of Mandarin. Such students may not enrol in this course without the permission of the programme director. It is granted only if the course is considered appropriate to the level of competence of the student.

CHIN352-21S2 (C)	Semester 2
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PACE 395 Internship

30 Points 0.2500 EFTS

What can you do with your major? With your degree? The purpose of the internship course is to explore both the ideological and practical assumptions guiding this question. The course is designed to be a critical, theoretical and "real-world" examination of the practices and ideologies inherent in both community and business organisations. You will apply the analytical skills acquired through your major, and through class seminars and readings, to a project designed by a local company or community group. Please check out the website for further information and specific project descriptions: www.arts.canterbury.ac.nz/internships

P: 150 points, special application and interview, and permission of the Internship Director.

R: ARTS 395

EQ: ARTS 395

PACE395-20SU2 (C)	Summer (Nov 20)
PACE395-21A (C)	Starts Anytime
PACE395-21S1 (C)	Semester 1
PACE395-21S2 (C)	Semester 2

Limited entry. See limitation of entry regulations. A student will be selected for a specific project. Only students accepted for projects will be allowed into the course. Please go to <http://www.arts.canterbury.ac.nz/internships> for more information.

Tāura | Tāura | Postgraduate

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CHIN 401 Advanced Chinese Language Acquisition

30 Points 0.2500 EFTS

This course builds on the language skills that students have acquired in the previous three years. Reading materials will include various topics and styles. Students are expected to summarise the reading in their own words, both oral and written, and to write reviews and essays in Chinese.

P: Subject to approval of the Programme Director.

CHIN401-21S1 (C)	Semester 1
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CHIN 409 A Special Topic

30 Points 0.2500 EFTS

An alternative appropriate topic in Chinese studies may be arranged after discussion between the student and teaching staff.

P: Subject to approval of the Programme Director.

CHIN409-21S2 (C)	Semester 2
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CHIN 415 Specialised Chinese Translation

30 Points 0.2500 EFTS

In connection with LANC404, this course puts particular emphasis on the cross-linguistic and cross-cultural features between English and Chinese languages. Students will develop practical skills to produce a translation and rendition (interpreting) that is pragmatically equivalent to original text. Entry into this course is limited to native and near-native speakers of Mandarin Chinese.

P: Subject to the approval of the Head of Department. Entry into this course is limited to native and near-native speakers of Mandarin Chinese. Students for whom Chinese is not their first language must have completed at least 60 points of Chinese language at 400-level, with a grade of at least a B+ average or have demonstrated equivalent competence in the language; or provided evidence of their Chinese language ability as follows: HSK (Hanyu Shuiping Kaoshi Chinese Proficiency Test) Level 4; or provided evidence of their Chinese language ability as follows: TOCFL (Test of Chinese as a Foreign Language) Level 4.

CHIN415-21S2 (C)	Semester 2
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CHIN 650 MA Dissertation

60 Points 0.5000 EFTS

MA Dissertation

P: Subject to approval of the Head of Department.

CHIN650-21A (C) Starts Anytime**CHIN650-21S1 (C) Semester 1****CHIN650-21S2 (C) Semester 2****CHIN 690 MA Thesis**

120 Points 1.0000 EFTS

P: Subject to approval of the Programme Director.

CHIN690-21A (C) Starts Anytime*Part-time enrolment (0.65 EFTS) is available on approval.***LANC 401 In Other Words What? Theory and Practice of Translation**

30 Points 0.2500 EFTS

An introduction to Translation Studies for students skilled in two or more languages, including aspects of modern theory and practice in the craft of accurate translation.

P: Subject to approval of the Head of Programme.

LANC401-21S1 (C) Semester 1**CHIN 790 Chinese PhD**

120 Points 1.0000 EFTS

P: Subject to approval of the Head of School.

CHIN790-21A (C) Starts Anytime*Part-time enrolment (0.65 EFTS) is available on approval. *From 1 January 2008, international students who are residing in New Zealand on a NZ Immigration Study Visa pay the Domestic Fee for this course. International fees apply for all other courses.*

Cinema Studies

*School of Humanities and Creative Arts***CINE 102 The Backpacker's Guide to World Cinema**

15 Points 0.1250 EFTS

This course identifies the formal, stylistic and thematic concerns that are shared, despite their apparent diversity, by a cross section of contemporary films. Students will analyse a selection of notable films from around the world that revise, resist or reject the standard practices or themes of mainstream cinema.

R: TAFS 102

CINE102-21S2 (C) Semester 2**CINE 104 The Oscar for Best Picture: The Envelope Please!**

15 Points 0.1250 EFTS

This course will trace the trajectory of the Academy Awards: from 1930s screwball comedies and backstage musicals to celebrated wartime classics; from 1950s Minnelli musicals to 1980s post-Vietnam war films. It will provide a concentrated, thumbnail history of American Cinema, which challenges students to consider and question the formal criteria (cinematography, acting, sound, editing) upon which critical judgement is based. It will introduce students to the canonical classics of American Cinema, inviting them to explore diverse film genres and even the occasional Academy extravaganza.

CINE104-21S1 (C) Semester 1**CINE104-21S1 (D) Semester 1****CINE 202 Film and Theory**

15 Points 0.1250 EFTS

The class sets the foundations for a working knowledge of the major debates that have informed Cinema Studies. Students will gain the necessary tools to use and understand the language of film theory and criticism.

P: Any 15 points at 100 level from CINE, or any 60 points at 100 level from the Schedule V of the BA.

RP: CINE 101 and CINE 102

CINE202-21S1 (C) Semester 1**CINE 210 Creative Writing for Screen**

15 Points 0.1250 EFTS

The objective of the course is to combine the development of students' creative writing with the practical skills and dramaturgic techniques of writing for film.

P: Any 15 points at 100 level from CINE or ENGL, or any 60 points at 100 level from the Schedule V of the BA.

R: ENGL 234, ENGL 238

EQ: ENGL 238

CINE210-21SU1 (C) Summer (Jan 21)*Limited entry. See limitation of entry regulations.***CINE 213 Kiriata: Māori Film and Media**

15 Points 0.1250 EFTS

This course examines the intersection of Māori identity in film, media and other creative works.

It considers the political, historical, social, cultural and ideological influences that have shaped dominant mainstream constructions and counter-hegemonic representations of Māori and indigenous peoples in film, media and creative works. It also highlights the roles of artist, director and industry to produce Māori stories and aesthetics. A number of films will be screened throughout the course.

P: Any 15 points at 100 level from CINE, MAOR, or TREO, or any 60 points at 100 level from the Schedule V of the BA.

R: MAOR 268

EQ: MAOR 268

CINE213-21S2 (C) Semester 2**CINE 214 European Novels and Film Adaptations**

15 Points 0.1250 EFTS

A study of important European novels and film adaptations.

P: Any 15 points at 100 level from CINE, ENGL, EURA, GRMN, or RUSS, or any 60 points at 100 level from the Schedule V of the BA.

R: EULC 204, EULC 304, EURA 204, EURA 304, ENGL 305, RUSS 215, RUSS 216

EQ: EURA 204

CINE214-21S2 (C) Semester 2**CINE 215 Global China on Screen**

15 Points 0.1250 EFTS

Like in the West, Chinese cinema has held a significant share in the cultural industry since the first film was made in China in 1905. Being a cultural product, film has always been seen as reflection of its contemporary culture, despite various aspects it might have taken. Taking primarily a Cultural Studies approach, this course introduces Chinese culture, especially a series of its contemporary phenomena by surveying Chinese cinema. The course will be taught in English and all Chinese films are subtitled. By viewing the films in class and many more available in the well-resourced UC library on the course's recommendation and students' own interests, the course encourages students to further develop their study in one or more of the following areas: Studies of Chinese culture and society; Cross-cultural studies with a focus on China/Asia and beyond; Cultural studies with a special emphasis on postmodernism (including postcolonialism) and Third World culture; Film studies focusing on national cinema. CHIN206 and CINE215 are the same course.

P: Any 15 points at 100 level from CHIN or CINE, or any 60 points at 100 level from the Schedule V of the BA.

R: CHIN 206, CHIN 306

EQ: CHIN 206

CINE215-21S1 (C) Semester 1**CINE215-21S1 (D) Semester 1****CINE 224 Children's Classics: Popular Children's Texts and their Representation on Film**

15 Points 0.1250 EFTS

Children's Classics teaches the genre-specific nature of children's literature, its socio-historical contexts, and the significance of its re-readings as film. It introduces a selection of enduring children's texts, illustrating the importance to literary production of changing cultural context, demonstrating the importance of intertextuality in children's literature and how texts change when filmed, and promotes the skills of reading and writing.

P: Any 15 points at 100 level from CINE or ENGL, or any 60 points at 100 level from the Schedule V of the BA.

R: ENGL 213

CINE224-21S2 (C) Semester 2**CINE224-21S2 (D) Semester 2****CINE 225 The Cinema of Contagion**

15 Points 0.1250 EFTS

This course asks how a 'cinema of contagion' might offer a lens through which we can better understand our precarious place in this world. It considers contagion in a literal sense, by exploring how a variety of international films from the 20th and 21st centuries represent illness, viral outbreaks, plagues, parasitic invasions, and social controls such as quarantine measures. It analyses how filmmakers use contagion metaphorically or allegorically, including as an aesthetic strategy. It also explores how questions of embodiment, subjectivity and mortality are explored through different genres and national cinemas.

P: Any 15 points at 100 level from CINE, or any 60 points at 100 level from the Schedule V of the BA.

CINE225-20SU2 (C) Summer (Nov 20)**CINE 301 Film History: The Sixties and the New Wave**

30 Points 0.2500 EFTS

A survey of the New Wave movements which swept cinema in the 60's, with an emphasis on the nouvelle vague in France.

P: Any 30 points at 200 level from CINE, or any 60 points at 200 level from the Schedule V of the BA.

R: CULT 321

CINE301-21S1 (C) Semester 1

CINE 302 Documentary: From the Margins to the Mainstream

30 Points 0.2500 EFTS

This course examines the artistic, ethical and political principles that govern the representation of reality in contemporary documentary film.

P: Any 30 points at 200 level from CINE or CULT, or any 60 points at 200 level from the Schedule V of the BA.

R: CULT 322

EQ: CULT 322

CINE302-21S2 (C) Semester 2**PACE 395 Internship**

30 Points 0.2500 EFTS

What can you do with your major? With your degree? The purpose of the internship course is to explore both the ideological and practical assumptions guiding this question. The course is designed to be a critical, theoretical and "real-world" examination of the practices and ideologies inherent in both community and business organisations. You will apply the analytical skills acquired through your major, and through class seminars and readings, to a project designed by a local company or community group. Please check out the website for further information and specific project descriptions: www.arts.canterbury.ac.nz/internships

P: 150 points, special application and interview, and permission of the Internship Director.

R: ARTS 395

EQ: ARTS 395

PACE395-20SU2 (C) Summer (Nov 20)**PACE395-21A (C) Starts Anytime****PACE395-21S1 (C) Semester 1****PACE395-21S2 (C) Semester 2**

Limited entry. See limitation of entry regulations. A student will be selected for a specific project. Only students accepted for projects will be allowed into the course. Please go to <http://www.arts.canterbury.ac.nz/internships> for more information.

Civil Engineering

Department of Civil and Natural Resources Engineering

ENCI 199 Health & Safety on the Worksite

0 Points 0.0000 EFTS

Compulsory site safe course for Civil and Natural Resources Engineering students.

P: Approval into the First Professional Year of Civil or Natural Resources Engineering.

ENCI199-21A (C) Starts Anytime**ENCI199-21W (C) Whole Year (S1 and S2)****ENCN 201 Communication Skills Portfolio 1**

0 Points 0.0000 EFTS

Introduction to communication skills required by practicing professional engineers.

P: Entry to first professional year of CNRE.

ENCN201-21A (C) Starts Anytime**ENCN 213 Design Studio 1**

15 Points 0.1250 EFTS

Loads and load paths in buildings and bridges. Design calculations for timber and steel structures. Engineering drawing. Construction and testing of simple structures.

P: Subject to approval of the Dean of Engineering and Forestry

R: ENCI 211

ENCN213-21S2 (C) Semester 2**ENCN 221 Engineering Materials**

15 Points 0.1250 EFTS

Introduction to engineering materials. Materials science. Metals, granular materials, asphalt, concrete, masonry, timber, plastics/ceramics. Sustainability issues and material selection.

P: Subject to approval of the Dean of Engineering and Forestry

ENCN221-21S1 (C) Semester 1**ENCN 231 Solid Mechanics**

15 Points 0.1250 EFTS

Introduction to solid and structural mechanics: analysis of statically determinate structures; stress and strain; behaviour of beams and columns; analysis of deformations; torsion.

P: Subject to approval of the Dean of Engineering and Forestry

R: ENCI 230, ENCI 234

ENCN231-21S1 (C) Semester 1**ENCN 242 Fluid Mechanics and Hydrology**

15 Points 0.1250 EFTS

Fluid Properties. Hydrostatics. Mass, energy and momentum fluxes. Applications to hydraulic

systems. Water resources and global climates. Stream and groundwater flow.

P: Subject to approval of the Dean of Engineering and Forestry

R: ENCI 241

ENCN242-21S2 (C) Semester 2**ENCN 253 Soil Mechanics**

15 Points 0.1250 EFTS

Properties and behaviour of rocks. Formation, properties and classification of soils. Strength and stiffness of soils. Applications to slopes, retaining walls, and site characterisation.

P: Subject to approval of the Dean of Engineering and Forestry

R: ENCI 252, ENCI 271

ENCN253-21S2 (C) Semester 2**ENCN 261 Transport and Surveying**

15 Points 0.1250 EFTS

Introduction to transportation engineering. Geometric design of roads. Surveying fundamentals. Surveying camp.

P: Subject to approval of the Dean of Engineering and Forestry

R: ENCI 262

ENCN261-21S1 (C) Semester 1**ENCN 281 Environmental Engineering**

15 Points 0.1250 EFTS

Water quality parameters; mass balances; kinetics; surface water quality modelling; ecological systems; treatment of water, wastewater, solid and hazardous wastes; air pollution.

P: Subject to approval of the Dean of Engineering and Forestry

R: ENNR 203, ENCI 383

ENCN281-21S2 (C) Semester 2**ENCI 335 Structural Analysis and Systems 1**

15 Points 0.1250 EFTS

Structural forms, systems and load paths. Modelling and analysis of indeterminate structures. Energy methods and virtual work. Introduction to structural dynamics and the response of structures to earthquakes.

P: ENCN 231, EMTH 210

R: ENCI 334

ENCI335-21S1 (C) Semester 1**ENCI 336 Behaviour and Design of Structures 1**

15 Points 0.1250 EFTS

Concrete and steel as structural materials. Design of members for tension, compression, shear, and flexure. Welded and bolted connections. Limit-state design concepts. Serviceability.

P: ENCN 213, ENCN 221, ENCN 231

R: ENCI 332, ENCI 333

ENCI336-21S2 (C) Semester 2**ENCN 301 Communication Skills Portfolio 2**

0 Points 0.0000 EFTS

Development of communication skills required by practicing professional engineers. Sketches, oral presentation, and various types of written reports.

P: ENCN 201

ENCN301-21A (C) Starts Anytime**ENCN 304 Deterministic Mathematical Methods**

15 Points 0.1250 EFTS

Analytical and numerical methods for engineering problems. Vector calculus. Systems of linear equations. Systems of ordinary differential equations. Partial differential equations.

P: EMTH 210

C: ENCN 305

R: ENCI 302

ENCN304-21S1 (C) Semester 1**ENCN 305 Programming, Statistics and Optimization**

15 Points 0.1250 EFTS

Computer programming. Descriptive statistics. Monte Carlo and Bootstrapping methods.

Design of experiments. Linear regression and generalized linear modelling. Optimization and linear programming.

P: EMTH 210

ENCN305-21S1 (C) Semester 1

ENCN 342 Hydraulics and Applied Hydrology

15 Points 0.1250 EFTS

Open channel flow; pipe networks; scale and dimensional analysis; flow of surface and ground water; urban drainage; catchment hydrological modelling.

P: ENCN 242, EMTH 210

R: ENCI 341

EQ: ENCN 342

ENCN342-21S2 (C) Semester 2**ENCN 347 Stormwater systems engineering**

15 Points 0.1250 EFTS

Interdisciplinary nature of stormwater management. Pollutant characteristics and receiving environments. Water-sensitive design. Erosion management. Engineered treatment systems. Lab and field experiences.

P: ENCN 242, ENCN 281

R: ENNR 322

ENCN347-21S2 (C) Semester 2**ENCN 353 Geotechnical Engineering**

15 Points 0.1250 EFTS

Mohr's circle; time-dependent soil behaviour; settlement; capacity and failure of foundations; field investigations; slope stability; earth pressure theories and retaining structures.

P: ENCN 253

R: ENCI 351

ENCN353-21S1 (C) Semester 1**ENCN 371 Project and Infrastructure Management**

15 Points 0.1250 EFTS

Project and infrastructure asset management, procurement methods, estimating, finance and accounting, economic appraisal, uncertainty and decision-making.

R: ENCI 363, ENCI 403

ENCN371-21S2 (C) Semester 2**ENCN 375 Sustainable Engineering for a Changing Climate**

15 Points 0.1250 EFTS

Engineering within planetary boundaries. Social, cultural, and economic factors. Risk and systems. Engineering ethics. Case studies of mitigation and adaptation options.

P: ENCN 201 (for basics of engineering writing)

R: ENCN 470

ENCN375-21S2 (C) Semester 2**ENCI 413 Integrated Civil Engineering Design**

30 Points 0.2500 EFTS

Integrated design of complex civil engineering projects; professional and teamwork analysis; economic, environmental, and bicultural issues; life-long learning.

P: EMTH 210, ENCI 199, ENCN 201, ENCN 213, ENCN 221, ENCN 231, ENCN 242, ENCN 253, ENCN 261, ENCN 281, ENCN 301, ENCN 371, ENCN 375

R: ENCI 313, ENNR 313

EQ: ENNR 413

ENCI413-21S2 (C) Semester 2**ENCI 436 Behaviour and Design of Structures 2**

30 Points 0.2500 EFTS

This course covers the behaviour and design of structural systems, considering the main structural materials currently used in New Zealand - timber, steel and reinforced concrete structures. The course builds on the basics of member design techniques for steel, reinforced concrete and timber structures, introduced in previous courses, to provide students with the skills and knowledge required for the design of typical structural systems.

P: EMTH 210, ENCI 199, ENCN 201, ENCN 213, ENCN 221, ENCN 231, ENCN 242, ENCN 253, ENCN 261, ENCN 281, ENCI 335, ENCI 336

C: ENCI 438

R: ENCI 425, ENCI 426, ENCI 427

ENCI436-21S1 (C) Semester 1**ENCI 437 Structural Analysis and Systems 2**

15 Points 0.1250 EFTS

Direct stiffness method of analysis; static and kinematic condensation; non-uniform torsion; geometric and material nonlinear analysis; rigid-plastic analysis; dynamic analysis of multiple-degree-of-freedom systems

P: EMTH 210, ENCI 199, ENCN 201, ENCN 213, ENCN 221, ENCN 231, ENCN 242, ENCN 253, ENCN 261, ENCN 281, ENCI 335, ENCI 336

R: ENCI 423

ENCI437-21S1 (C) Semester 1**ENCI 438 Introduction to Structural Earthquake Engineering**

15 Points 0.1250 EFTS

This course introduces analytical methods and design concepts in structural earthquake engineering. The course covers fundamentals of seismic hazard and seismic demands on typical structures and components, as well as key concepts and techniques used to analyse, design, and understand the behaviour of structures under earthquake loads.

P: EMTH 210, ENCI 199, ENCN 201, ENCN 213, ENCN 221, ENCN 231, ENCN 242, ENCN 253, ENCN 261, ENCN 281, ENCI 335, ENCI 336

R: ENCI 429

ENCI438-21S1 (C) Semester 1**ENCI 475 Independent Course of Study**

15 Points 0.1250 EFTS

P: Subject to approval of the Head of Department.

ENCI475-20SU2 (C) Summer (Nov 20)**ENCI475-21S1 (C) Semester 1****ENCI475-21W (C) Whole Year (S1 and S2)****ENCI475-21S2 (C) Semester 2****ENCN 401 Engineering in Developing Communities**

15 Points 0.1250 EFTS

Water supply and sanitation (solid and liquid waste management) issues in developing communities, agricultural issues and impacts of land-use changes, humanitarian aid during natural disaster relief, engineering in a cultural and sustainable context using appropriate technology.

P: EMTH 210, ENCI 199, ENCN 201, ENCN 213, ENCN 221, ENCN 231, ENCN 242, ENCN 253, ENCN 261, ENCN 281

R: ENNR 451

ENCN401-21S1 (C) Semester 1**ENCN 412 Traffic Engineering**

15 Points 0.1250 EFTS

Transport planning. Traffic flow theory. Roadway and intersection design. Road safety. Traffic surveys. Transport project evaluation. Environmental impacts. Traffic management.

P: EMTH 210, ENCI 199, ENCN 201, ENCN 213, ENCN 221, ENCN 231, ENCN 242, ENCN 253, ENCN 261, ENCN 281

R: ENCI 412

ENCN412-21S1 (C) Semester 1**ENCN 445 Fluid Mechanics of Environmental Systems**

15 Points 0.1250 EFTS

Description and modelling of turbulence. Near and far field mixing behaviour. Dispersion in rivers, jets, plumes. Outfall design. Introduction to wave theory, including wave dispersion and forces.

P: EMTH 210, ENCI 199, ENCN 201, ENCN 213, ENCN 221, ENCN 231, ENCN 242, ENCN 253, ENCN 261, ENCN 281, ENCN 342, ENCN 304

R: ENCI 445

ENCN445-21S1 (C) Semester 1**ENCN 452 Advanced Geotechnical Engineering**

15 Points 0.1250 EFTS

Stress-strain behaviour of soils. Critical-state soil mechanics. Approximations and limitations for geotechnical analyses. Piles under axial and lateral loading. Shallow foundations.

P: EMTH 210, ENCI 199, ENCN 201, ENCN 213, ENCN 221, ENCN 231, ENCN 242, ENCN 253, ENCN 261, ENCN 281, ENCN 353

R: ENCI 452

ENCN452-21S1 (C) Semester 1**ENCN 454 Introduction to Geotechnical Earthquake Engineering**

15 Points 0.1250 EFTS

Seismic behaviour of retaining walls, shallow and deep foundations, embankments, and slopes. Liquefaction. Case studies, design applications, and advanced methods of analysis.

P: EMTH 210, ENCI 199, ENCN 201, ENCN 213, ENCN 221, ENCN 231, ENCN 242, ENCN 253, ENCN 261, ENCN 281, ENCN 353

R: ENCI 620

ENCN454-21S1 (C) Semester 1**ENCN 481 Water and Wastewater Treatment Systems**

15 Points 0.1250 EFTS

Project-based design for treatment of contaminated media. Could include treatment of drinking water, wastewaters, landfill design, or remediation of contaminated soils. Laboratories, field trips.

P: EMTH 210, ENCI 199, ENCN 201, ENCN 213, ENCN 221, ENCN 231, ENCN 242, ENCN 253, ENCN 261, ENCN 281

R: ENCI 481, ENCI 482

ENCN481-21S1 (C) Semester 1

ENCN 493 Project

30 Points

0.2500 EFTS

Engineering Research Project

P: EMTH 210, ENCI 199, ENCN 201, ENCN 213, ENCN 221, ENCN 231, ENCN 242, ENCN 253, ENCN 261, ENCN 281, ENCN 301

R: ENCI 493, ENCI 494, ENCN 494

ENCN493-21X (C)

22 Feb 2021 - 21 Nov 2021

ENCN493-21X1 (C)**ENGR 403 Fire Engineering**

15 Points

0.1250 EFTS

Introduction to Fire Engineering. Fire ignition, flame spread and flame height. The performance of construction materials and fire resistance. People movement and behaviour during fires. Fire detection, suppression and smoke extract systems. Wildland fires, fire investigation, fire-fighting.

P: Subject to approval of the Director of Studies

ENGR403-21SU1 (C)

Summer (Jan 21)

ENGR403-21S1 (C)

Semester 1

Tāura | Tāura | Postgraduate*Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.***ENCI 601 Risk Management**

15 Points

0.1250 EFTS

Risk concepts; context and perceptions; risk identification, analysis, evaluation and treatment; quantitative and qualitative risk analysis; ethical issues and risk communication; applications and case studies.

P: Subject to approval of the Director of Studies

ENCI601-21S1 (C)

Semester 1

ENCI 634 Engineering Chemistry for Water Systems

15 Points

0.1250 EFTS

Application of principles of physical chemistry to the description and composition of natural waters and engineering treatment of drinking water and wastewater. Studies of acid/base chemistry, complexation, precipitation, and oxidation-reduction potential chemistry.

P: Subject to approval of the Programme Director

ENCI634-21S1 (C)

Semester 1

ENCI 646 Flood Analysis, Modelling and Management

15 Points

0.1250 EFTS

Extreme value statistics; Flood modelling and uncertainty assessment; Flood protection; Risk assessment; Damage cost estimation.

P: Subject to approval of the Head of Department or the Programme Director. The expected level of previous experience is detailed in the course outline.

ENCI646-21S1 (C)

Semester 1

ENCI 648 Special Topic: Water Demand and Supply

15 Points

0.1250 EFTS

Estimation of water demand and supply through measurement (in situ and remote sensing), statistical and stochastic analysis and modelling; optimisation of water allocation and costs in different contexts.

P: Subject to approval of the Head of Department.

ENCI648-21S1 (C)

Semester 1

ENCI 657 Special Topic

15 Points

0.1250 EFTS

P: Subject to approval of the Head of Department.

ENCI657-21S1 (C)

Semester 1

ENCI 675 Independent Course of Study

15 Points

0.1250 EFTS

P: Subject to approval of the Head of Department.

ENCI675-21S1 (C)

Semester 1

ENCI675-21W (C)

Whole Year (S1 and S2)

ENCI675-21S2 (C)

Semester 2

ENCI 677 Advanced Wastewater Treatment

15 Points

0.1250 EFTS

Biological processes and complementary physical/chemical processes. Assessment and design of suspended growth, biofilm, and membrane technologies. Modelling approaches and advanced laboratory procedures.

P: ENCN 281 and ENCN 481 or equivalent

ENCI677-21X (C)

09 Aug 2021 - 14 Nov 2021

*Limited entry. See limitation of entry regulations***ENCI 680 Civil ME Project [Full Time]**

72 Points

0.6000 EFTS

P: Subject to approval of the Head of Department.

ENCI680-21A (C)

Starts Anytime

ENCI 682 Special Topic Civil Engineering - Project

30 Points

0.2500 EFTS

P: Subject to approval of the Head of Department

ENCI682-21A (C)

Starts Anytime

ENCI 690 Civil ME Thesis

120 Points

1.0000 EFTS

P: Subject to approval of the Head of Department.

ENCI690-21A (C)

Starts Anytime

*Part-time enrolment (0.65 EFTS) is available on approval.***ENCI 790 Civil Engineering PhD**

120 Points

1.0000 EFTS

P: Subject to approval of the Head of Department.

ENCI790-21A (C)

Starts Anytime

*Part-time enrolment (0.65 EFTS) is available on approval. *From 1 January 2008, international students who are residing in New Zealand on a NZ Immigration Study Visa pay the Domestic Fee for this course. International fees apply for all other courses.***Classics***School of Humanities and Creative Arts***CLAS 120 People, Places and Histories of the Graeco-Roman World**

15 Points

0.1250 EFTS

In this course we will survey events in antiquity from Homer through to the Roman Emperor Constantine. On the way we will explore the world of fifth century Athens, gaining an insight into the society that established democracy and move on to appreciate Alexander's campaigns and the formation of the Hellenistic kingdoms after his death. We will also turn to the west of the Mediterranean Sea and investigate the development of Rome from a small town to the capital of a large Empire, its constitutional transformations and the social impact of those changes on people's sense of place and identity.

R: CLAS 111; CLAS 112; CLAS 113

CLAS120-21S1 (C)

Semester 1

CLAS120-21S1 (D)

Semester 1

CLAS 122 Myth, Power and Identity in the Graeco-Roman World

15 Points

0.1250 EFTS

In this course students will consider how the Greeks and the Romans thought of themselves and others in their mythology and social power structures. Students will gain an understanding of ancient cosmic world-views, gender issues, colonisation and identity in Archaic and Classical Greece and Augustan Rome, and the relevance of such ideas now. Students will read, analyse and interpret ancient literary texts (selections from epic, tragedy, etc.) and material culture (art and architecture) that depict Greek and Roman myths as well as expressing ancient political and social views.

R: CLAS 104; CLAS 105

CLAS122-21S2 (C)

Semester 2

CLAS122-21S2 (D)

Semester 2

CLAS 134 Beginners' Greek A

15 Points

0.1250 EFTS

An introduction to Greek grammar and reading Greek. Students learn the language and literature of primarily Athens of the fifth and fourth centuries BC, and focus on texts closely modelled on authors such as Plato, Aristophanes and more. The course involves some study of the cultural background of these texts, including the philosophy of Socrates, life during wartime and the role of women in ancient Greece.

R: CLAS 131

CLAS134-21S1 (C)

Semester 1

CLAS 135 Beginners' Greek B

15 Points

0.1250 EFTS

An introduction to Greek grammar and reading Greek, building on CLAS134. Students learn the language and literature of primarily Athens of the fifth and fourth centuries BC, and focus on texts closely modelled on authors such as Plato, Aristophanes and more. The course involves some study of the cultural background of these texts, including the philosophy of Socrates, life during wartime and the role of women in ancient Greece.

P: CLAS 134, or subject to approval of the Head of Department.

R: CLAS 131

CLAS135-21S2 (A)

Semester 2

CLAS 144 Beginners' Latin A

15 Points 0.1250 EFTS

An introduction to Latin grammar and to reading Latin.

R: CLAS 143

CLAS144-21S1 (C) Semester 1**CLAS144-21S1 (D) Semester 1****CLAS 145 Beginners' Latin B**

15 Points 0.1250 EFTS

An introduction to Latin grammar and to reading Latin, following on from CLAS144.

P: CLAS 144, or subject to approval of the Head of Department.

R: CLAS 143

CLAS145-21S2 (C) Semester 2**CLAS145-21S2 (D) Semester 2****CLAS 206 Greek Art: The Power of Images in Archaic and Classical Greece**

15 Points 0.1250 EFTS

We focus on the brilliant achievements of the Greeks in architecture, figurative painting, sculpture and other media that have been influential for centuries. We see what these meant in their broader cultural context, including Greek myth and history, as well as Greek interaction with cultures of Egypt and the Middle East. Students in this course have a chance to work directly with the splendid artefacts from the James Logie Memorial Collection (including Greek vases) now housed in the Teecce Museum.

P: Any 15 points at 100 level from ARTH or CLAS, or any 60 points at 100 level from the Schedule V of the BA.

R: ARTH 216, CLAS 336

RP: Any 100-level course in CLAS.

EQ: ARTH 216

CLAS206-21S2 (A) Semester 2**CLAS 214 Imperial Rome**

15 Points 0.1250 EFTS

Roman history, society and culture under the early emperors as represented by the literary sources and material remains.

P: Any 15 points at 100 level from CLAS, or any 60 points at 100 level from the Schedule V of the BA.

R: CLAS 318

CLAS214-21S2 (A) Semester 2**CLAS 220 Troy and Ancient Epic**

15 Points 0.1250 EFTS

No cycle of myths has had a stronger grip on the western imagination than the saga of the Trojan War and its aftermath. This course focuses on Homer's vast epic poems Iliad and Odyssey (eighth-seventh centuries BC) and Vergil's Roman epic Aeneid (first century BC) - three poems which remain among the very greatest and most influential literary works of all time, and which feature such famous figures as Achilles, Hector, Helen, Odysseus (aka Ulysses), Dido and Aeneas, among many others.

P: Any 15 points at 100 level from CLAS, or any 60 points at 100 level from the Schedule V of the BA.

R: CLAS 202, CLAS 203, CLAS 320, CLAS 323

CLAS220-21S1 (A) Semester 1**CLAS 224 Greek Philosophy**

15 Points 0.1250 EFTS

The intellectual rigour, which informed the Greeks' speculations on life, the universe and everything, changed our understanding of the world forever. In this course we survey the origins and development of western philosophy in the Greek world, focusing on the 6th to the 4th centuries BC when many areas that preoccupy philosophers today were analysed and explored by the Greeks, including cosmology, physics, ethics, politics, psychology and more. Figures such as Socrates, Plato and many others before and after them will feature.

P: Any 15 points at 100 level from CLAS or PHIL, or any 60 points at 100 level from the Schedule V of the BA.

R: CLAS 324; PHIL 314; PHIL 224

RP: CLAS 104 or CLAS/PHIL 141 or any 100-level in CLAS or PHIL.

EQ: PHIL 224

CLAS224-21S1 (A) Semester 1**CLAS 234 Intermediate Greek Authors 1**

15 Points 0.1250 EFTS

A study of selected Greek texts and unseen passages, with emphasis on the development of knowledge of the language.

P: CLAS 135, or subject to approval of the Head of Department.

R: CLAS 231

CLAS234-21S1 (A) Semester 1**CLAS 235 Intermediate Greek Authors 2**

15 Points 0.1250 EFTS

Continued study of Greek literature and unseen passages, with emphasis on the development of knowledge of the language. This involves reading important texts by authors such as Sophocles, Euripides, Thucydides, Homer and others, as well as analysing these more fully in their cultural and literary context.

P: CLAS 234, or subject to approval of the Head of Department.

R: CLAS 231

CLAS235-21S2 (A) Semester 2**CLAS 244 Intermediate Latin Authors A**

15 Points 0.1250 EFTS

A study of selected Latin texts and unseen passages, with emphasis on the development of knowledge of the language.

P: CLAS 145, or subject to approval of the Head of Department.

R: CLAS 241

CLAS244-21S1 (A) Semester 1**CLAS244-21S1 (D) Semester 1****CLAS 245 Intermediate Latin Authors B**

15 Points 0.1250 EFTS

Continued study of selected Latin texts and unseen passages, with emphasis on the development of knowledge of the language.

P: CLAS 244, or subject to approval of the Head of Department.

R: CLAS 241

CLAS245-21S2 (A) Semester 2**CLAS 307 Topics in Ancient History: Athens: From city to empire and back again**

30 Points 0.2500 EFTS

This course covers the history of the wealthiest and most powerful Greek city-state, Athens, from the legislation of Solon through the "Periclean Age" down to the advent of Alexander the Great.

P: Any 30 points at 200 level from CLAS, or any 60 points at 200 level from the Schedule V of the BA.

R: CLAS 407

CLAS307-21S2 (A) Semester 2**CLAS 310 Writing in Chains: Latin Literature and Roman Slavery**

30 Points 0.2500 EFTS

An examination of Roman slavery from a literary and cultural-historical perspective.

P: Any 30 points at 200 level from CLAS, or any 60 points at 200 level from the Schedule V of the BA.

CLAS310-21S1 (A) Semester 1**CLAS 322 Roman Architecture**

30 Points 0.2500 EFTS

This course explores the tremendous architectural and engineering achievements of the Romans from the 2nd century BC - 4th century AD. The course will focus on a variety of architectural buildings, forms, techniques and materials, and will also examine some of the cultural and historical factors underlying the Romans' success as architects. This course is suitable for Civil Engineering students as well as Arts students.

P: Any 30 points at 200 level from CLAS, or any 60 points at 200 level from the Schedule V of the BA or from the BE (Hons).

R: CLAS 314 (In 2012 and 2014 only), CLAS 414, CLAS 422

EQ: CLAS 314 (In 2012 and 2014 only)

CLAS322-21S1 (A) Semester 1**CLAS 324 Greek Philosophy**

30 Points 0.2500 EFTS

The intellectual rigour, which informed the Greeks' speculations on life, the universe and everything, changed our understanding of the world forever. In this course we survey the origins and development of western philosophy in the Greek world, focusing on the 6th to the 4th centuries BC when many areas that preoccupy philosophers today were analysed and explored by the Greeks, including cosmology, physics, ethics, politics, psychology and more. Figures such as Socrates, Plato and many others before and after them will feature.

P: Any 30 points at 200 level from CLAS or PHIL, or any 60 points at 200 level from the Schedule V of the BA.

R: CLAS 224, PHIL 224, PHIL 314

EQ: PHIL 314

CLAS324-21S1 (A) Semester 1**CLAS 335 Advanced Greek Authors**

30 Points 0.2500 EFTS

Continued study of Greek literature and unseen passages, with emphasis on the development of knowledge of the language. This involves reading important texts by authors such as Sophocles, Euripides, Thucydides, Homer and others as well as analysing these more fully in their cultural and literary context.

P: CLAS 235, or subject to approval of the Head of Department.
R: CLAS 331

CLAS335-21S2 (A) Semester 2

CLAS 336 Greek Art: The Power of Images in Archaic and Classical Greece

30 Points 0.2500 EFTS

We focus on the brilliant achievements of the Greeks in architecture, figurative painting, sculpture and other media that have been influential for centuries. We see what these meant in their broader cultural context, including Greek myth and history, as well as Greek interaction with cultures of Egypt and the Middle East. Students in this course have a chance to work directly with the splendid artefacts from the James Logie Memorial Collection (including Greek vases) now housed in the Teece Museum.

P: Any 30 points at 200 level from ARTH or CLAS, or any 60 points at 200 level from the Schedule V of the BA.

R: CLAS 206, ARTH 216

RP: CLAS 104: Greek Mythologies, CLAS 220 or any other 200-level paper in CLAS

CLAS336-21S2 (A) Semester 2

CLAS 345 Advanced Latin Authors

30 Points 0.2500 EFTS

Continued advanced study of Latin texts and unseen passages.

P: CLAS 244, or subject to approval of the Head of Department.

R: CLAS 341

CLAS345-21S2 (A) Semester 2

PACE 395 Internship

30 Points 0.2500 EFTS

What can you do with your major? With your degree? The purpose of the internship course is to explore both the ideological and practical assumptions guiding this question. The course is designed to be a critical, theoretical and "real-world" examination of the practices and ideologies inherent in both community and business organisations. You will apply the analytical skills acquired through your major, and through class seminars and readings, to a project designed by a local company or community group. Please check out the website for further information and specific project descriptions: www.arts.canterbury.ac.nz/internships

P: 150 points, special application and interview, and permission of the Internship Director.

R: ARTS 395

EQ: ARTS 395

PACE395-20SU2 (C) Summer (Nov 20)

PACE395-21A (C) Starts Anytime

PACE395-21S1 (C) Semester 1

PACE395-21S2 (C) Semester 2

Limited entry. See limitation of entry regulations. A student will be selected for a specific project. Only students accepted for projects will be allowed into the course. Please go to <http://www.arts.canterbury.ac.nz/internships> for more information.

Tāura | Tāura | Postgraduate

Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.

CLAS 401 Prescribed Texts: Greek and Latin

30 Points 0.2500 EFTS

A variety of Greek and Latin literary texts, for translation and critical analysis.

P: Subject to approval of the Head of Department.

CLAS401-21W (A) Whole Year (S1 and S2)

CLAS 407 Athens: From city to empire and back again

30 Points 0.2500 EFTS

The course will look in detail at selected historical and historiographical topics.

P: Subject to approval of the Head of Department.

R: CLAS 307, CLAS 332

CLAS407-21S2 (A) Semester 2

CLAS 422 Roman Architecture

30 Points 0.2500 EFTS

This course explores the tremendous architectural and engineering achievements of the Romans from the 2nd century BC - 4th century AD. The course will focus on a variety of architectural buildings, forms, techniques and materials, and will also examine some of the cultural and historical factors underlying the Romans' success as architects. This course is suitable for Civil Engineering students as well as Arts students.

P: Subject to approval of the Head of Department.

R: CLAS 322, CLAS 314: in 2012 and 2014 only

EQ: CLAS 314: in 2012 and 2014 only

CLAS422-21S1 (A) Semester 1

CLAS 480 BA (Hons) Essay

30 Points 0.2500 EFTS

A substantial piece of work on a particular topic.

P: Subject to approval of the Head of Department.

CLAS480-21W (A) Whole Year (S1 and S2)

CLAS 660 MA Dissertation

60 Points 0.5000 EFTS

MA Dissertation

P: Subject to approval of the Head of Department.

CLAS660-21A (C) Starts Anytime

CLAS660-21S1 (C) Semester 1

CLAS660-21S2 (C) Semester 2

CLAS 690 MA Thesis

120 Points 1.0000 EFTS

P: Subject to approval of the Head of Department.

CLAS690-21A (C) Starts Anytime

Part-time enrolment (0.65 EFTS) is available on approval.

CLAS 790 Classics PhD

120 Points 1.0000 EFTS

P: Subject to approval of the Programme Coordinator

CLAS790-21A (C) Starts Anytime

*Part-time enrolment (0.65 EFTS) is available on approval. *From 1 January 2008, international students who are residing in New Zealand on a NZ Immigration Study Visa pay the Domestic Fee for this course. International fees apply for all other courses.*

Communication Disorders

Department of Communication Disorders

CMDS 161 Anatomy and Physiology of the Speech, Hearing and Swallowing Mechanism

15 Points 0.1250 EFTS

This course aims to promote knowledge and understanding of the anatomical structures and physiological processes involved in speech production and perception. The main goal is to familiarize students with the basic terms and concepts of the human speech mechanism and facilitate future studies of disorders in speech, voice, language, swallowing and hearing or related disciplines.

CMDS161-20SU2 (D) Summer (Nov 20)

SPSC 113 Introduction to Communication Disorders

15 Points 0.1250 EFTS

(1) To gain an understanding of typical speech, language and swallowing development and the effects of healthy ageing upon these same processes; (2) To be aware of the possible consequences of delay or disorder upon communication and swallowing function; and (3) to understand the role of a speech-language therapist in assessment and treatment of communication and swallowing disorders.

R: CMDS 111 and CMDS 112

SPSC113-21S2 (C) Semester 2

SPSC 114 The Science of Human Communication

15 Points 0.1250 EFTS

SPSC114 examines how we communicate, how that is influenced by our culture, the neural and cognitive processes underpinning communication, and how communication is affected by external contexts such as noise and stress. It highlights theories and practical strategies to enhance the success of communication, in written and spoken format, as a university student and future professional. Drawing on case studies from the fields of medicine and aviation, we explore the effects of communication failure-and how those issues can be mitigated. We explore how communication differs across groups-such as children, older adults and those with communication difficulty. Students also gain exposure to the different academic disciplines that examine communication and the scientific methods they employ.

SPSC114-21S1 (C) Semester 1

SPSC 161 Anatomy and Physiology of the Speech, Hearing and Swallowing Mechanism

15 Points 0.1250 EFTS

This course aims to promote knowledge and understanding of the anatomical structures and physiological processes involved in speech production and perception. The main goal is to familiarize students with the basic terms and concepts of the human speech mechanism and facilitate future studies of disorders in speech, voice, language, swallowing and hearing or related disciplines.

SPSC161-21S1 (C) Semester 1

CMDS 282 Clinical Practice 2

15 Points 0.1250 EFTS

Students will develop foundation skills in client management in speech-language pathology clinics and skills to present client information in a professional format.

R: CMDS 668

CMDS282-20SU2 (C) Summer (Nov 20)**HEAR 243 Introduction to Audiologic Assessment and Management**

15 Points 0.1250 EFTS

This course provides students with foundational knowledge in audiology and of the role of the audiologist in the diagnosis and management of hearing and balance disorders, as well as a thorough understanding of how to develop and implement aural rehabilitation plans for children and adults and their family members. Skills acquired include competence in hearing screening audiometry and the interpretation of basic audiometric data in paediatric and adult audiology.

R: HEAR 663

HEAR243-21S1 (C) Semester 1**SPSC 222 Language Disorders in Children**

15 Points 0.1250 EFTS

In this course students examine theories, causes and characteristics of language disorders in early childhood. Issues addressed include cultural variation in perceptions of 'disorder/impairment/disability', prevalence and risk factors, rationales and methods of early identification, principles of clinical assessment and evidence-based intervention, working with bilingual and bicultural clients, service delivery models and methods for judging the effectiveness of intervention. This course includes case study work for both assessment and intervention planning.

P: SPSC 223

R: SPSC 665

SPSC222-21S2 (C) Semester 2**SPSC 223 Clinical Linguistics and Phonetics**

15 Points 0.1250 EFTS

This course focuses on linguistics, language acquisition and phonetics, tailored for students working with clinical populations. The aim is to give students sufficient knowledge of speech and language, and their analyses, to understand the nature of both typical and atypical processes in this and future courses and professional practice. Students examine the structure of the English language, and developmental sequences, theoretical perspectives and influencing factors in language development in children. Students will record and transcribe a language sample, analyse, and draw conclusions about the child's developmental level. In conjunction, students will examine the physical characteristics of speech sounds and learn to transcribe speech, with an emphasis on phonemic transcription in typically developing children and healthy adults. While the primary focus of the course is on English, students will develop an understanding of how speech and language differs across languages and how the analyses learnt can be applied to any language, with a specific focus on te reo Māori.

R: SPSC 661, CMDS 221, CMDS 231

SPSC223-21S1 (C) Semester 1**SPSC 262 Neuroscience of Swallowing and Communication**

15 Points 0.1250 EFTS

This course provides students with foundational knowledge on the structure and function of the human nervous system. Students develop a thorough understanding of the development and organisation of the nervous system and its role in higher level cognitive functioning. Students also examine the underlying aetiology and main characteristics of a variety of neurological conditions associated with communication and swallowing disorders. In addition, they learn to explain relevant neurological diagnostic techniques and neurosurgical procedures used to study, assess and treat communication and swallowing disorders of neurogenic origin.

R: SPSC 667, CMDS 162

SPSC262-21S1 (C) Semester 1**SPSC 263 Evaluating Research for Clinical Practice**

15 Points 0.1250 EFTS

Evidence-based practice is the conscientious, explicit and judicious use of current best evidence in making decisions about the care of individual clients (CEBM, Oxford). Having its origins in the fields of medicine and clinical epidemiology, EBP is now a growing part of speech and language sciences. The purpose of this course is to introduce you to the principles and methods of evidence-based clinical practice so that you can apply those methods to assessing and treating communication disorders in children and adults.

P: STAT 101

R: SPSC 668

SPSC263-21S2 (C) Semester 2**SPSC 281 Observation and Clinical Practice 1**

15 Points 0.1250 EFTS

To prepare students for clinical practice through observations of communication in a range of community settings and facilitate student participation in clinic based activities.

R: SPSC 664

SPSC281-21S1 (C) Semester 1**SPSC 282 Clinical Practice 2**

15 Points 0.1250 EFTS

Students will develop foundation skills in client management in speech-language pathology clinics and skills to present client information in a professional format.

R: SPSC 668

SPSC282-21S2 (C) Semester 2**CMDS 381 Applied Research and Clinical Practice 3**

15 Points 0.1250 EFTS

In this course students will establish the links between theory and practice. Students will further develop professional and clinical competency in managing a client caseload in an on-campus clinic. Students will successfully apply research skills of planning and executing a case study that includes a critical appraisal of diagnostic and therapeutic approaches, methods for data collection, analysis and interpretation.

P: CMDS 281, CMDS 282, CMDS 263

R: CMDS 671

CMDS381-20SU2 (C) Summer (Nov 20)**CMDS 382 Clinical Practice 4**

15 Points 0.1250 EFTS

To further develop clinical skills in client management and professional behaviour to Intermediate level as measured by COMPASS.

P: CMDS 281, CMDS 282, CMDS 263

R: CMDS 676

CMDS382-20SU2 (C) Summer (Nov 20)**SPSC 320 Spoken and Written Language Disorders in Education**

15 Points 0.1250 EFTS

Further study in childhood language disorders, focusing on the assessment and treatment of school-aged children with language impairment.

P: SPSC 222

R: SPSC 672

SPSC320-21S1 (C) Semester 1**SPSC 363 Motor Speech Disorders**

15 Points 0.1250 EFTS

The overall goal of the course is to produce students capable of assessing and differentially diagnosing cases of paediatric and adult motor speech disorders and, furthermore, be capable of using this information to establish goals for intervention and develop appropriate, evidence-based intervention programmes.

P: CMDS 162 or SPSC 262

R: SPSC 673

SPSC363-21S2 (C) Semester 2**SPSC 365 Dysphagia and Related Disorders - Diagnosis**

15 Points 0.1250 EFTS

The study of anatomy, physiology and neuroanatomy of normal deglutition, the nature and characteristics of swallowing disorders, the methods for the evaluation of dysphagia in adults and children, the medical conditions associated with dysphagia such as aspiration pneumonia, tracheostomy and other complicating factors.

P: SPSC 161 and (CMDS 162 or SPSC 262)

R: SPSC 669

SPSC365-21S1 (C) Semester 1**SPSC 366 Dysphagia and Related Disorders - Management**

15 Points 0.1250 EFTS

In this course students extend their pre-requisite knowledge of swallowing biomechanics and pathophysiology to the management of swallowing impairment. Students examine practices for rehabilitation and compensation of swallowing disorders in adults and children. On completion of the course, students will be equipped to make a professional contribution to the multidisciplinary management team for swallowing disorders in medical and educational settings.

P: SPSC 161, CMDS 162, SPSC 365

R: SPSC 674

SPSC366-21S2 (C) Semester 2*Limited entry. See limitation of entry regulations.***SPSC 367 Voice Science and Disorders**

15 Points 0.1250 EFTS

This course is designed to provide knowledge about voice production and laryngeal pathophysiology and facilitate development of problem-solving skills in managing clinical voice pathology and conducting voice research. Emphasis is on building competencies in the assessment and management of voice problems and a solid foundation of knowledge about the theories and methods in voice science.

P: CMDS 162 or SPSC 262

R: SPSC 666

SPSC367-21S2 (C) Semester 2

SPSC 369 Aphasia and Related Disorders

15 Points 0.1250 EFTS

Students will learn to apply evidence-based practice and the World Health Organization's International Classification of Functioning, Disability and Health (ICF) to differentially diagnosing the presence, extent, and nature of aphasia; and to planning their assessment approach; establishing suitable goals for intervention; and constructing appropriate management plans when working with clients with aphasia across the continuum of care.

P: CMDS 162 or SPSC 262

R: SPSC 670

SPSC369-21S1 (C) Semester 1**SPSC 381 Applied Research and Clinical Practice 3**

15 Points 0.1250 EFTS

In this course students will establish the links between theory and practice. Students will further develop professional and clinical competency in managing a client caseload in an on-campus clinic. Students will successfully apply research skills of planning and executing a case study that includes a critical appraisal of diagnostic and therapeutic approaches, methods for data collection, analysis and interpretation.

P: SPSC 281, SPSC 282, SPSC 263

R: SPSC 671

SPSC381-21S1 (C) Semester 1**SPSC 382 Clinical Practice 4**

15 Points 0.1250 EFTS

To further develop clinical skills in client management and professional behaviour to Intermediate level as measured by COMPASS.

P: SPSC 281, SPSC 282, SPSC 263

R: SPSC 676

SPSC382-21S2 (C) Semester 2**CMDS 482 Clinical Practice 5**

15 Points 0.1250 EFTS

This course consolidates the links between theory and practice in the field of communication and swallowing disorders. Students carry out clinical work with an increasing level of independence and develop advanced professional and clinical competency in client management and professional behaviour, as specified by the COMPASS, with the requisite consideration of the cultural and ethical context of practice. Students will further enhance skills of developing electronic resources to demonstrate their learning. Students will integrate academic learning and clinical skills within reflective group workshops and within assessment tasks.

P: CMDS 381, CMDS 382

CMDS482-20SU2 (C) Summer (Nov 20)**CMDS 484 Clinical Practice 6**

30 Points 0.2500 EFTS

This course is the capstone to the three-year BSLP degree. Students consolidate the links between theory and practice, and develop independence in clinical work. Students discuss and critically appraise i) workplace management, ii) methods and practices of interprofessional case management, and iii) service delivery. Students manage a range of clients independently, consulting with colleagues and other professionals as appropriate and applying the relevant theory to evidence based practice. Students will participate in mentoring/leadership roles. Students continue to develop competence in clinical practice as specified by the COMPASS, working in a variety of settings and demonstrating consideration of the cultural and ethical context in clinical practice.

P: CMDS 381, CMDS 382

CMDS484-20SU2 (C) Summer (Nov 20)**SPSC 421 Advanced Topics in Speech-language Pathology**

15 Points 0.1250 EFTS

This course examines advanced topics in Speech-language pathology clinical and research practices. These include evidence-based models of engaging with Māori clients and their whānau in health and education contexts, the use of interprofessional practices that enhance client outcomes, and the use of new and emerging of technologies to deliver and research clinical services.

P: SPSC 320, SPSC 363, SPSC 365, SPSC 366, SPSC 367, SPSC 369, SPSC 381, SPSC 382

SPSC421-21S1 (C) Semester 1**SPSC 451 Fluency Disorders**

15 Points 0.1250 EFTS

Introduction to the clinical management of adults and children who stutter, including the clinical measurement of stuttering, the design of stuttering treatments, and the application of empirical and theoretical literature to clinical practice.

R: SPSC 662

SPSC451-21T3 (C) 12 July 2021 - 29 Aug 2021**SPSC 461 Complex Communication Disorders**

15 Points 0.1250 EFTS

In this course, students undertake advanced study with a focus on the management of more complex and multifaceted cases. Discussion topics include the management of clients for whom there is more than one key issue influencing their management (e.g. more than one communication disorder, bilingualism, psychosocial issues, multicultural background) and for clients in specialist areas of speech-language therapy (e.g. neurodevelopmental and cognitive communication disorders). Students explore knowledge which enables them, on the basis of a range of novel and complex case studies, to compare and contrast appropriate assessment procedures, to differentially diagnose the presence, extent, and nature of the communication disorder, to establish appropriate goals for intervention and to plan an appropriate intervention programme.

P: SPSC 320, SPSC 369, SPSC 363

R: SPSC 675

SPSC461-21S1 (C) Semester 1**SPSC 468 Professional Studies 2**

15 Points 0.1250 EFTS

In this course students engage in an interactive lecture series focusing on professional studies related to speech-language pathology. Students will develop an understanding of professional issues in speech-language pathology and apply knowledge of professional issues to client management

R: SPSC 676

SPSC468-21S2 (C) Semester 2*Limited entry. See limitation of entry regulations.***SPSC 482 Clinical Practice 5**

15 Points 0.1250 EFTS

This course consolidates the links between theory and practice in the field of communication and swallowing disorders. Students carry out clinical work with an increasing level of independence and develop advanced professional and clinical competency in client management and professional behaviour, as specified by the COMPASS, with the requisite consideration of the cultural and ethical context of practice. Students will further enhance skills of developing electronic resources to demonstrate their learning. Students will integrate academic learning and clinical skills within reflective group workshops and within assessment tasks.

P: SPSC 381, SPSC 382

SPSC482-21S1 (C) Semester 1**SPSC 484 Clinical Practice 6**

30 Points 0.2500 EFTS

This course is the capstone to the three-year BSLP degree. Students consolidate the links between theory and practice, and develop independence in clinical work. Students discuss and critically appraise i) workplace management, ii) methods and practices of interprofessional case management, and iii) service delivery. Students manage a range of clients independently, consulting with colleagues and other professionals as appropriate and applying the relevant theory to evidence based practice. Students will participate in mentoring/leadership roles. Students continue to develop competence in clinical practice as specified by the COMPASS, working in a variety of settings and demonstrating consideration of the cultural and ethical context in clinical practice.

P: SPSC 381, SPSC 382

SPSC484-21S2 (C) Semester 2**SPSC 490 Research Project**

30 Points 0.2500 EFTS

A special project researching some aspect of communication sciences and disorders. The project is carried out under the guidance of a supervisor.

P: Subject to approval of the Head of Department.

SPSC490-21W (C) Whole Year (S1 and S2)*Limited entry. See limitation of entry regulations.***SPSC 491 Capstone Project**

15 Points 0.1250 EFTS

The Capstone Project is a challenging and independent research project that aims to consolidate your learning by drawing together the main strands of your academic and clinical undergraduate programme into a clinically-relevant, evidence-based, written report. This report will take the form of a critically appraised topic (CAT) arising from a clinical question posed by you in consultation with your project supervisor. The CAT will require you to construct a structured clinical question, search for relevant sources of evidence addressing your question, critically appraise the evidence and draw a conclusion based on the highest-quality evidence available.

P: SPSC 263 and Enrolment in the 3rd Professional Year of the BSLP(Hons).

SPSC491-21S1 (C) Semester 1

Tāura | Postgraduate

Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.

SPSC 605 Advanced Clinical Practicum, Supervision and Administration

15 Points

0.1250 EFTS

This course will prepare postgraduate students to supervise other professionals and monitor programmatic efficacy as administrators in speech-language settings.

SPSC605-21W (C)

Whole Year (S1 and S2)

SPSC 661 Clinical Linguistics and Phonetics

15 Points

0.1250 EFTS

In this course students evaluate the relative impact of biological, social, cultural, and cognitive factors on speech and language acquisition and critically evaluate theories proposed to account for stages of development. Students compare and contrast techniques of clinical linguistic analysis to equip them to analyse a speech-language sample collected for a case study in order to draw conclusions about the stage of speech/language development reflected by the data.

P: Entry subject to approval by the Head of School.

R: CMDS 221, CMDS 231

SPSC661-21S1 (C)

Semester 1

Limited entry. See limitation of entry regulations.

SPSC 662 Fluency Disorders

15 Points

0.1250 EFTS

Introduction to the clinical management of adults and children who stutter, including the clinical measurement of stuttering, the design of stuttering treatments, and the application of empirical and theoretical literature to clinical practice.

P: Entry subject to approval by the Head of School.

R: (1) CMDS 351, (2) SPSC 451

SPSC662-21T3 (C)

12 July 2021 - 29 Aug 2021

Limited entry. See limitation of entry regulations.

SPSC 664 Professional Studies and Clinical Practice I

15 Points

0.1250 EFTS

In this course students learn the methods of observation, data recording and data interpretation before applying these methods in a variety of clinical and community contexts. By the end of the course students will have observed and assisted in the clinical management of a range of communication and swallowing disorders in a variety of settings. Students will develop skills in using electronic resources as related to professional development and clinical practice. A workshop series on professional studies as applied to speech-language pathology accompanies fieldwork.

P: Entry subject to approval by the Head of School.

R: SPSC 281, CMDS 368

SPSC664-21S1 (C)

Semester 1

Limited entry. See limitation of entry regulations.

SPSC 665 Speech and Language Disorders in Children

15 Points

0.1250 EFTS

In this course students examine theories, causes and characteristics of speech and language disorders in early childhood and critically examine evidence related to theories advanced to account for such disorders. Issues addressed include cultural variation in perceptions of 'disorder/impairment/disability', prevalence and risk factors, rationales and methods of early identification, principles of clinical assessment and evidence-based intervention, working with bilingual and bicultural clients, service delivery models and methods for judging the effectiveness of intervention. This course includes case study work for both assessment and intervention planning.

P: SPSC 661. Entry subject to approval by the Head of School.

R: SPSC 222, SPSC 232

SPSC665-21S2 (C)

Semester 2

Limited entry. See limitation of entry regulations.

SPSC 666 Voice Disorders

15 Points

0.1250 EFTS

In this course, students learn the fundamentals of voice production and laryngeal pathophysiology and apply this knowledge to problem solving for voice and resonance disorders, voice therapy, and vocal measurement. Emphasis is on building competencies in the assessment and management of voice problems and a solid foundation of knowledge about the theories and methods in voice science. On the basis of novel cases, students will identify, differentiate, and describe voice disorders and critically examine methods of assessment and intervention.

P: Entry subject to approval by the Head of School.

R: SPSC 367

SPSC666-21S2 (C)

Semester 2

Limited entry. See limitation of entry regulations.

SPSC 667 Neuroscience of Communication and Swallowing

15 Points

0.1250 EFTS

The overall aim of the course is to provide students with a foundational knowledge of human neurosciences in order that they can understand: the literature in neurogenic communication

and swallowing disorders, the rationale for the tasks in the neurological examination, and the underlying basis of neurogenic communication and swallowing disorders.

P: Entry subject to approval by the Head of School.

R: (1) CMDS 162, (2) SPSC 262

SPSC667-21S1 (C)

Semester 1

Limited entry. See limitation of entry regulations.

SPSC 668 Evidence-Based Clinical Practice 2

15 Points

0.1250 EFTS

The purpose of this course is to introduce you to the principles and methods of evidence-based clinical practice so that you can apply those methods to assessing and treating communication disorders in children and adults. You will also develop foundation skills in client management in speech-language pathology clinics.

P: (1) STAT 101 or equivalent (2) SPSC 664. Entry subject to approval by the Head of School.

R: SPSC 282, SPSC 263 and CMDS 462

SPSC668-21X (C)

12 July 2021 - 26 Dec 2021

Limited entry. See limitation of entry regulations.

SPSC 669 Dysphagia and Related Disorders - Diagnosis

15 Points

0.1250 EFTS

The study of anatomy, physiology and neuroanatomy of normal deglutition, the nature and characteristics of swallowing disorders, the methods for the evaluation of dysphagia in adults and children, the medical conditions associated with dysphagia such as aspiration pneumonia, tracheostomy and other complicating factors.

P: SPSC 667. Entry subject to approval by the Head of School.

R: SPSC 365

SPSC669-21S1 (C)

Semester 1

Limited entry. See limitation of entry regulations.

SPSC 670 Aphasia and Related Disorders

15 Points

0.1250 EFTS

Students will learn to apply evidence-based practice and the World Health Organization's International Classification of Functioning, Disability and Health (ICF) to differentially diagnosing the presence, extent, and nature of aphasia; and to planning their assessment approach; establishing suitable goals for intervention; and constructing appropriate management plans when working with clients with aphasia across the continuum of care.

P: SPSC 667. Entry subject to approval by the Head of School.

R: SPSC 369, SPSC 671

SPSC670-21S1 (C)

Semester 1

Limited entry. See limitation of entry regulations.

SPSC 671 Applied Research and Clinical Practice 3

15 Points

0.1250 EFTS

This course offers students the opportunity to develop clinical skills in speech-language pathology including overall client management, professional communication, team work and effective time management. The fundamental link between research skills and evidence-based practice is understood by applying the principles of designing, undertaking, analysing and reporting on research in a real life setting.

P: (1) SPSC 664, (2) SPSC 668. Entry subject to approval by the Head of School.

R: SPSC 381

SPSC671-21X (C)

25 Jan 2021 - 20 June 2021

Limited entry. See limitation of entry regulations.

SPSC 672 Spoken and Written Language Disorders in Educational Settings

15 Points

0.1250 EFTS

The goal of this course is to extend the proficiency of students in developmental language disorders by building on the knowledge gained in CMDS661 and CMDS665. This course extends prior learning in two key ways: 1) focuses on the nature of language impairment in older children and how that impairment impacts on social and academic outcomes; and 2) requires synthesis of previously learned concepts through application to an older population and educational context. This course introduces students to factors uniquely relevant to the New Zealand educational context, including cultural considerations in assessment and intervention, bilingual educational settings and relevant legislation and government initiatives.

P: SPSC 665. Entry subject to approval by the Head of School.

R: SPSC 320

SPSC672-21S1 (C)

Semester 1

Limited entry. See limitation of entry regulations.

SPSC 673 Motor Speech Disorders

15 Points

0.1250 EFTS

The overall goal of the course is to produce students capable of assessing and differentially diagnosing cases of paediatric and adult MSDs and, furthermore, be capable of using this information to establish goals for intervention and develop appropriate, evidence-based intervention programmes.

P: SPSC 667. Entry subject to approval by the Head of School.

R: SPSC 363

SPSC673-21S2 (C)

Semester 2

Limited entry. See limitation of entry regulations.

SPSC 674 Dysphagia and Related Disorders: Management

15 Points 0.1250 EFTS

In this course students extend their pre-requisite knowledge of swallowing biomechanics and pathophysiology to the management of swallowing impairment. Students examine practices for rehabilitation and compensation of swallowing disorders in adults and children. On completion of the course, students will be equipped to make a professional contribution to the multidisciplinary management team for swallowing disorders in medical and educational settings.

P: SPSC 669. Entry subject to approval by the Head of School.

R: (1) CMDS 465, (2) SPSC 366

SPSC674-21S2 (C) Semester 2

Limited entry. See limitation of entry regulations.

SPSC 675 Evidence-based Practice for Complex Communication Disorders

15 Points 0.1250 EFTS

In this course, students undertake advanced study with a focus on the management of more complex and multifaceted cases. Topics include sourcing and evaluating evidence to support the management of clients for whom there is more than one key factor influencing their management (e.g. presence of more than one communication disorder, psychosocial factors, bilingualism and culturally and linguistically diverse background) and for clients in specialist areas of speech-language therapy (e.g., neurodevelopmental disorders, cognitive communication disorders). Students explore research, client, and practitioner evidence to assess and differentially diagnose the presence, extent, and nature of the communication disorder, and to establish appropriate intervention plans.

P: Entry subject to approval by the Head of School.

R: SPSC 461

SPSC675-21S2 (C) Semester 2

Limited entry. See limitation of entry regulations.

SPSC 676 Professional Studies and Clinical Practice 4

15 Points 0.1250 EFTS

This course is the capstone to the two-year MSLP degree. Students consolidate the links between theory and practice, and develop independence in clinical work. Students discuss and critically appraise i) workplace management, ii) methods and practices of interprofessional case management, and iii) service delivery. Students apply counselling skills and ethical decision-making framework to clinical scenarios. Students manage a range of clients independently, consulting with colleagues and other professionals as appropriate and applying the relevant theory to evidence based practice. Students continue to develop competence in clinical practice as specified by the COMPASS, working in a variety of settings and demonstrating consideration of the cultural and ethical context in clinical practice.

P: (1) SPSC 664, (2) SPSC 668, (3) SPSC 671. Entry subject to approval by the Head of School.

R: (1) SPSC 468, (2) SPSC 484

SPSC676-21X (C) 12 July 2021 - 23 Jan 2022

Limited entry. See limitation of entry regulations.

SPSC 695 MSc Thesis (Clinical)

105 Points 0.8750 EFTS

P: Subject to approval of the Head of School.

SPSC695-21A (C) Starts Anytime

Thesis must be completed within 12 months (fulltime) and may be started in either the summer at the end of Year 1, or the first semester of Year 2, finishing in either the second semester of Year 2 or the summer of Year 2, respectively. Part-time enrolment (0.65 EFTS) is available on approval.

SPSC 696 MSc Thesis (Non-Clinical)

120 Points 1.0000 EFTS

P: Subject to approval of the Head of School.

SPSC696-21A (C) Starts Anytime

Thesis must be completed within 12 months (fulltime) and may be started in either the summer at the end of Year 1, or the first semester of Year 2, finishing in either the second semester of Year 2 or the summer of Year 2, respectively. Part-time enrolment (0.65 EFTS) is available on approval.

SPSC 790 Speech and Language Sciences PhD

120 Points 1.0000 EFTS

SPSC790-21A (C) Starts Anytime

Part-time enrolment (0.65 EFTS) is available on approval. *From 1 January 2008, international students who are residing in New Zealand on a NZ Immigration Study Visa pay the Domestic Fee for this course. International fees apply for all other courses.

Computational and Applied Mathematical Sciences

School of Mathematics and Statistics

Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.

CAMS 449 Research Project

30 Points 0.2500 EFTS

P: Subject to approval of the Head of School.

CAMS449-21W (C) Whole Year (S1 and S2)**CAMS449-21CY (C) Cross Year****CAMS 690 MSc Thesis**

120 Points 1.0000 EFTS

P: Subject to approval of the Head of School.

CAMS690-21A (C) Starts Anytime

Part-time enrolment (0.65 EFTS) is available on approval.

CAMS 790 Computational and Applied Mathematics PhD

120 Points 1.0000 EFTS

P: Subject to approval of the Head of School.

CAMS790-21A (C) Starts Anytime

Part-time enrolment (0.65 EFTS) is available on approval. *From 1 January 2008, international students who are residing in New Zealand on a NZ Immigration Study Visa pay the Domestic Fee for this course. International fees apply for all other courses.

Computer Engineering

Department of Electrical and Computer Engineering**ENCE 360 Operating Systems**

15 Points 0.1250 EFTS

This course provides an overview of the concept of operating systems. An operating system is the most important system software and manages all the resources of a computer. This course provides a detailed view of operating system functions such as process management, memory management, I/O management, file management and virtualisation. This course also provides information about concepts such as mutual exclusion, and concurrent processes. There is an emphasis on design, implementation, and evaluation of modern operating systems including mobile and real-time operating systems.

P: ENCE 260.

R: COSC 321

RP: COSC 110 or COSC 101, COSC 262.

ENCE360-21S2 (C) Semester 2**ENCE 361 Embedded Systems 1**

15 Points 0.1250 EFTS

Embedded Systems is the study of specialised computer hardware, such as microcontrollers, programmed to perform a series of tasks, typically using a high-level language such as C, and targeted towards dedicated applications.

P: ENCE 260

R: ENEL 353, ENEL 323, COSC 361, ELEC 361, ENEL 340

ENCE361-21S1 (C) Semester 1**ENCE 461 Embedded Systems 2**

15 Points 0.1250 EFTS

An advanced course on computer, microprocessor, and digital signal processor systems and their implementation. Practical issues in advanced digital hardware design.

P: ENCE 361

R: ENEL 429

ENCE461-21S1 (C) Semester 1**ENCE 464 Embedded Software and Advanced Computing**

15 Points 0.1250 EFTS

This course combines software engineering practice for embedded systems with advanced computer architectures and memory systems. State machines form a unifying mechanism to understand hardware and software. Software design procedures and methodologies are used to develop reliable coding practices used on high-performance concurrent systems with real-time constraints. Testing and debugging on high-performance concurrent systems, where inter-task communication support is required, and is analysed using industry-standard metrics and test platforms.

P: ENCE 361

R: ENCE 463, ENCE 462, ENEL 428, ENEL 429

ENCE464-21S2 (C) Semester 2

Computer Science

Department of Computer Science and Software Engineering

COSC 101 Working in a Digital World

15 Points 0.1250 EFTS
This course provides students with an understanding of how the digital world is engineered, and exposes them to a range of tools commonly used by knowledge workers. Students will learn to critically evaluate systems from both a technical and human point of view.

R: COSC 110, DIGI 101
EQ: DIGI 101

COSC101-21S1 (C) Semester 1

COSC 121 Introduction to Computer Programming

15 Points 0.1250 EFTS
Computer programming in a high-level language with special emphasis on style and structure. This course is a prerequisite for COSC122 and all 200 level COSC and SENG courses.

R: COSC 131

COSC121-21S1 (C) Semester 1

COSC121-21S2 (C) Semester 2

COSC 122 Introduction to Computer Science

15 Points 0.1250 EFTS
An introduction to Computer Science, including algorithms, computability, complexity and object-oriented programming.

P: COSC 121

R: COSC 112, CMIS 112

COSC122-20SU2 (C) Summer (Nov 20)

COSC 260 Turing: From the Computer Revolution to the Philosophy of AI

15 Points 0.1250 EFTS
This course tells you (nearly) everything you ever wanted to know about Alan Turing, the birth of the computer, and the Philosophy of Artificial Intelligence. It is a problem-based course, equally suitable for Arts, Science, Engineering, and Law students.

P: Any 15 points at 100 level in PHIL, COSC, LING, MATH, or PSYC, or any 60 points at 100 level from the Schedule V of the BA or the BSc.

R: PHIL 250

COSC260-21S2 (C) Semester 2

COSC 261 Formal Languages and Compilers

15 Points 0.1250 EFTS
This course deals with fundamental concepts and techniques in computer science. It covers automata, formal languages, compilers, computability and complexity theory.

P: (1) COSC 121 or COSC 131; (2) COSC 122; (3) MATH 120

COSC261-21S1 (C) Semester 1

COSC 262 Algorithms

15 Points 0.1250 EFTS
This course teaches a range of fundamental algorithms and analyses their properties and behaviour.

P: (1) COSC 121; (2) COSC 122;

RP: MATH 120

COSC262-21S1 (C) Semester 1

COSC 264 Introduction to Computer Networks and the Internet

15 Points 0.1250 EFTS
This course covers principles of theory and practice of computer networks and the Internet, and it studies important Internet technologies and protocols, including: Ethernet / Local Area Networks, TCP/IP, Routing, and HTTP.

P: (1) COSC 121 or COSC 131; (2) COSC 122; (3) EMTH 119 or (MATH 102 and MATH 120) or (MATH 102 and STAT 101)

COSC264-21S2 (C) Semester 2

COSC 265 Relational Database Systems

15 Points 0.1250 EFTS
An introduction to database systems, database design, relational databases and database management systems.

P: COSC 121 or COSC 131 or INFO 125

COSC265-21S2 (C) Semester 2

ENCE 260 Computer Systems

15 Points 0.1250 EFTS
This is an introductory course to computer systems and is a mixture of computer programming in C, computer architecture, and embedded systems.

P: COSC 121 or COSC 131

R: ENEL 206; both COSC 208/ENCE 208 and COSC 221/ENCE 221

ENCE260-21S2 (C) Semester 2

COSC 362 Data and Network Security

15 Points 0.1250 EFTS
The course provides a study of the principles and practice of security for both stored and transmitted information. It addresses the fundamental principles of computer and network security and covers: Internet Threats and Hacker Techniques, Firewall Security, Intrusion Detection Systems, Authentication, Encryption Technologies, Public Key Management, Virtual Private Networks and Wireless Network Security.

P: COSC 264 or INFO 333.

R: COSC 332, ACIS 323, AFIS 323

RP: It is recommended that COSC 362 and COSC 364 be taken together.

COSC362-21S2 (C) Semester 2

COSC 363 Computer Graphics

15 Points 0.1250 EFTS
This course focuses on all aspects of fundamental computer graphics methods, including three-dimensional object representations, transformations, projections and rendering algorithms. The theoretical bases and implementation aspects of illumination and reflection models, texture mapping techniques and ray tracing are also covered. The course aims to provide a good foundation of OpenGL programming for the development of graphics applications using both fixed-function and programmable pipelines. The course also gives an introduction to WebGL programming.

P: (1) ENCE 260, (2) 30 points of 200-level Computer Science, (3) 15 points of 100-level MATH/STAT/EMTH (MATH 120 recommended). MATH 101 is not acceptable.

COSC363-21S1 (C) Semester 1

COSC 364 Internet Technology and Engineering

15 Points 0.1250 EFTS
This course covers theory and practice of Internet routing and the application of mathematical optimization to network and capacity planning problems.

P: COSC 264

COSC364-21S1 (C) Semester 1

COSC 366 Research Project

15 Points 0.1250 EFTS
Students will gain experience in performing research in the fields of Computer Science and Software Engineering
P: (1) 45 points of 200-level Computer Science (2) 30 points from Mathematics, Statistics or Engineering Mathematics or 15 points of Math/Stat (MATH 120 recommended) and COSC 262. MATH 101 is not acceptable. (3) approval of the Head of Department

RP: COSC 110 OR COSC 101, ENCE 260, COSC 261, COSC 262, SENG 201

COSC366-20SU2 (C) Summer (Nov 20)

COSC 367 Artificial Intelligence

15 Points 0.1250 EFTS
This course introduces major concepts and algorithms in Artificial Intelligence. Topics include problem solving, reasoning, games, and machine learning.

P: COSC 262

COSC367-21S2 (C) Semester 2

COSC 368 Humans and Computers

15 Points 0.1250 EFTS
The course provides an introduction to Human-Computer Interaction (HCI). HCI is concerned with understanding, designing, implementing and evaluating user-interfaces so that they better support users in carrying out their tasks. On completing the course you will have knowledge of the theoretical foundations of designing for interaction between humans and computers. You will also have practical experience in implementing and evaluating graphical user interfaces.

P: (1) 45 points of (200-level Computer Science and ENCE 260), (2) 30 points of EMTH or 15 points of MATH/STAT (MATH 120 recommended). MATH 101 is not acceptable.

R: COSC 225

RP: COSC 110 OR COSC 101, COSC 263 OR SENG 201

COSC368-21S2 (C) Semester 2

Tāura | Postgraduate

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COSC 401 Machine Learning

15 Points 0.1250 EFTS

A study of computational processes that underlie learning in machines. The course covers fundamental theories and algorithms in machine learning.

P: (i) COSC 367; (ii) At least 45 points of 100-, 200- or 300-level MATH/EMTH/STAT (but not including MATH 101, MATH 110, STAT 101); (iii) Subject to approval by the Head of Department

COSC401-21S2 (C) Semester 2

COSC 411 Advanced Topics in HCI

15 Points 0.1250 EFTS

An introduction to research in human-computer interaction.

P: 1) COSC 368; 2) Subject to approval of the Head of Department. BE(Hons) students must have completed COSC 363.

COSC411-21S1 (C) Semester 1

COSC 421 Advanced Topics in Security

15 Points 0.1250 EFTS

This course will cover the wide-ranging issues on advanced topics in computer, network, and systems security. Students will learn from security fundamentals to advanced topics in security.

P: (1) COSC 362 and (2) subject to approval by the Head of Department

COSC421-21S1 (C) Semester 1

COSC 422 Advanced Computer Graphics

15 Points 0.1250 EFTS

This course provides an in-depth knowledge of advanced algorithms and techniques used in several areas of computer graphics. The course covers a wide range of topics that have found applications in real-time rendering, animation, and game engine development.

P: 1) COSC 363; 2) Subject to Approval of the Head of Department

COSC422-21S2 (C) Semester 2

COSC 424 Secure Software

15 Points 0.1250 EFTS

This course provides students with skills to design and implement secure application programs, which are not vulnerable to malicious attacks.

P: Subject to approval of the Head of Department.

COSC424-21S2 (C) Semester 2

COSC 428 Computer Vision

15 Points 0.1250 EFTS

This course covers advanced techniques and algorithms used in real-time 3D computer vision and image processing, from medical imaging to intelligent autonomous UAV/robot vision.

P: Subject to approval of the Head of Department.

COSC428-21S1 (C) Semester 1

COSC 432 Relational Methods

15 Points 0.1250 EFTS

This course covers the algebraic structure of binary relations and their use for formally specifying and reasoning about programs, graphs and models described in predicate logic. It presents the mathematics of relational programming, modelling, algorithm development and correctness proofs, and tools supporting these activities.

P: COSC 261 or COSC 262; and MATH 120

COSC432-21S2 (C) Semester 2

COSC 440 Deep Learning

15 Points 0.1250 EFTS

This course introduces students to theoretical foundational concepts of deep neural networks. The focus of this course is on both fundamental theoretical and applied methods in deep neural networks. A range of topics from convolutional and recurrent type networks to neural-network generative models and attention mechanisms will be introduced.

P: (1) COSC 262; (2) 30 points of 300-level COSC/SENG/DATA; (3) Approval by the Head of the Department of Computer Science and Software Engineering.

COSC440-21S2 (C) Semester 2

COSC 441 Wireless Networking Systems and Performance

15 Points 0.1250 EFTS

This course provides an introduction to wireless networking, covering the different classes of wireless systems, fundamentals of wireless communications and wireless physical layers, medium access control protocols and routing protocols. Furthermore, students will gain hands-on experience with discrete-event simulation, a key methodology for performance

assessment of wireless networking protocols and systems.

P: ENCE 260, SENG 201 and COSC 364.

R: COSC 418

COSC441-21S1 (C) Semester 1

COSC 469 Research Methods in Computer Science and Software Engineering

15 Points 0.1250 EFTS

This course introduces students to research methods in Computer Science and Software Engineering. Critical research skills for postgraduate students are covered.

P: Subject to approval by Head of Department.

R: COSC 460

COSC469-21S1 (C) Semester 1

COSC 470 Research Project

30 Points 0.2500 EFTS

This course gives students in-depth research experience by completing a comprehensive computer science research project. A research topic will be chosen in discussion with a possible academic supervisor, a proposal developed and approved, and a written research report completed. Various milestones throughout the year include proposal development, written and oral progress reports, and final project presentations. At the end of the course, students will have studied and practised essential techniques and skills required to successfully complete a computer science research project.

P: Subject to approval of the Head of Department

C: COSC 469

R: COSC 460, COSC 461

COSC470-21W (C) Whole Year (S1 and S2)

COSC470-21CY (C) Cross Year

COSC 471 Special Topic: Natural Language Processing

15 Points 0.1250 EFTS

This course introduces central problems and methods in natural language processing. There is a special focus on the challenges presented by low-resource languages in the Pacific. Through their experiences in this course, students will be able to describe the central problems and methods in natural language processing, apply standard methods and models to existing text datasets, compare standard methods by their assumptions and applications, design an application of existing methods to a NZ-specific context, and evaluate the performance of the above application against reasonable baselines.

P: (1) COSC 262; (2) Approval by the Head of Department of Computer Science and Software Engineering

COSC471-21S1 (C) Semester 1

COSC 472 Special Topic

15 Points 0.1250 EFTS

P: Subject to the approval of the Head of Department

COSC472-21S1 (C) Semester 1

COSC 473 Special Topic

15 Points 0.1250 EFTS

P: Entry is subject to the approval of the Head of Department

COSC473-21S2 (C) Semester 2

COSC 474 Special Topic

15 Points 0.1250 EFTS

P: Subject to the approval of the Head of Department

COSC474-21S2 (C) Semester 2

COSC 475 Independent Course of Study

15 Points 0.1250 EFTS

P: Subject to approval of the Head of Department

COSC475-21S1 (C) Semester 1

COSC475-21W (C) Whole Year (S1 and S2)

COSC475-21S2 (C) Semester 2

COSC 480 Computer Programming

15 Points 0.1250 EFTS

Computer programming and program development in a high-level language with special emphasis on style and structure.

P: Subject to approval of the Head of Department

COSC480-21S1 (C) Semester 1

COSC480-21S2 (C) Semester 2

COSC 486 Research Project

15 Points

0.1250 EFTS

Students will gain experience in performing research in the fields of Computer Science and Software Engineering.

P: Entry is subject to the approval of the Head of Department.

RP: COSC 400-level courses

COSC486-20SU2 (C)**Summer (Nov 20)****COSC 680 Computer Science Professional Project**

60 Points

0.5000 EFTS

This course is the capstone project for the Professional Master of Computer Science (PMCS). Students will work on an open-ended project involving the design, development and test of a software-based solution to a complex problem.

P: Subject to approval of the Head of Department.

COSC680-21FY (C) Full Year (February to February)

Part-time enrolment (0.65 EFTS) is available on approval.

COSC 690 MSc Thesis

120 Points

1.0000 EFTS

P: Subject to approval of the Head of Department.

COSC690-21A (C)**Starts Anytime**

Part-time enrolment (0.65 EFTS) is available on approval.

COSC 695 MCom Thesis

120 Points

1.0000 EFTS

P: Subject to approval of the Head of Department.

COSC695-21A (C)**Starts Anytime****COSC 790 Computer Science PhD**

120 Points

1.0000 EFTS

P: Subject to approval of the Head of Department.

COSC790-21A (C)**Starts Anytime**

Part-time enrolment (0.65 EFTS) is available on approval. *From 1 January 2008, international students who are residing in New Zealand on a NZ Immigration Study Visa pay the Domestic Fee for this course. International fees apply for all other courses.

Construction Management

Department of Civil and Natural Resources Engineering

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ENCM 620 Construction Procurement and Contract Administration

15 Points

0.1250 EFTS

Construction procurement processes, contract fundamentals and responsibilities, contract administration, integrated project delivery, analysis of trends in procurement and contract administration.

P: Subject to approval of Programme Director

ENCM620-21S1 (C)**Semester 1****ENCM 630 Project Management, Planning and Control Techniques**

15 Points

0.1250 EFTS

Project management techniques, managing project resources, controlling the project, analysis of trends in project management.

P: Subject to approval of Programme Director

ENCM630-21S1 (C)**Semester 1****ENCM 650 Cost Engineering**

15 Points

0.1250 EFTS

Work Break-down Structure; Project Cost Scoping; Cost Databases; Pricing & Indexing; Feasibility & Conceptual Estimating; Quantity Surveying (Earthworks, Pavements, Structures); Variation Order Scoping; Contingencies; Stochastic Estimating; Industry Trends.

RP: BE (Hons) or equivalent

ENCM650-21S2 (C)**Semester 2****ENCM 676 Construction Equipment and Heavy Construction Methods**

15 Points

0.1250 EFTS

In this course the selection and acquisition of construction equipment is covered. During the course, students will develop a better understanding of the factors affecting the selection, scheduling and use of heavy construction equipment. The students will learn to apply engineering fundamentals, construction engineering and management knowledge and

construction engineering and management knowledge from this course to solve problems encountered with construction equipment and to design construction processes that involve the use of equipment.

ENCM676-21S2 (C)**Semester 2**

Limited entry. See limitation of entry regulations.

ENCM 682 Research Project

30 Points

0.2500 EFTS

Special project in Construction Management Engineering

P: Subject to approval of Programme Director

ENCM682-21A (C)**Starts Anytime****ENCM 690 Construction Management Thesis**

120 Points

1.0000 EFTS

Construction Management Thesis

P: Subject to approval of Programme Director.

ENCM690-21A (C)**Starts Anytime**

Part-time enrolment (0.65 EFTS) is available on approval.

Criminal Justice

*School of Law***CRJU 101 Introduction to Criminal Justice**

15 Points

0.1250 EFTS

The structure of the Criminal Justice system and the role of government agencies: Investigative and prosecutorial agencies such as Police, Fisheries, Customs, Serious Fraud Office, Crown prosecutors (includes ESR); the criminal courts (High, District and Youth Courts) jurisdiction and roles; Corrections and related activities (includes Probation, fines enforcement etc, community service etc; CYPs.

R: LAWS 150

EQ: LAWS 150

CRJU101-21S1 (C)**Semester 1****CRJU 150 Legal Method in the Criminal Justice Context**

15 Points

0.1250 EFTS

Legal method in the criminal law context provides an introduction to understanding legal concepts, the sources of law, and the structure of the criminal justice system in New Zealand. Students will be introduced to important concepts and definitions and to the techniques of legal reasoning, case analysis and statutory interpretation through an examination of criminal cases and laws. They will also be introduced to the impact Tikanga and customary law has on understanding legal method in New Zealand. Students who study this course will be well equipped to understand legal method from a New Zealand criminal law perspective.

R: LAWS 101

CRJU150-21S1 (C)**Semester 1****CRJU 160 Legal Issues in the New Zealand Criminal Justice System**

15 Points

0.1250 EFTS

Legal Issues in the New Zealand criminal justice system will introduce students to current and emerging issues in the criminal justice system. It will begin by providing an overview of the complex legal rules which regulate the investigation and prosecution and punishment of criminal offences and offenders. Case studies and contemporary law reform initiatives will be used to provide perspectives on the working of these legal rules as practice, and as tools to discuss the process in which the law might be changed. Students who study this course will be well equipped to understand the nature of the New Zealand criminal justice system.

CRJU160-21S2 (C)**Semester 2****CRJU 201 Crime and Justice**

15 Points

0.1250 EFTS

This course introduces students to the principal theories of crime and applies those theories to an understanding of crime in New Zealand.

P: Any 15 points at 100 level in SOCI, ANTH, CRJU, or LAWS, or any 60 points at 100 level from the Schedule V of the BA.

R: SOCI 218

EQ: SOCI 218

CRJU201-21S1 (C)**Semester 1****CRJU 202 Criminal Law and Procedure**

15 Points

0.1250 EFTS

General principles of criminal law (liability for offences, overview of party liability, inchoate offences and general defences). Major features of criminal procedure (arrest, bail, legal controls on investigation (search warrants etc); commencement of prosecutions; pre-trial and trial procedure; appeals.

P: Either CRJU 150 or LAWS 150

R: LAWS 202
CRJU202-21S1 (C)

Semester 1

CRJU 211 Forensic Science for Criminal Justice

15 Points 0.1250 EFTS

An introduction to forensic science for students in criminal justice disciplines. The course includes, crime scene investigation, autopsy techniques, forensic science lab investigations and interpreting forensic results in a legal context.

P: 60 points at 100 level.

R: CHEM 111, CHEM 114, BIOL 112, BIOL 111, BIOL 113

CRJU211-21S1 (C) Semester 1

CRJU 301 Sentencing Theory and Practice

15 Points 0.1250 EFTS

Theoretical bases for sentencing: just deserts, utilitarianism and other theories. Plea negotiation. Sentencing Act 2002- process, principles and practice. Probation and parole. Proceeds of Crime legislation.

P: CRJU 202 or LAWS 202.

R: LAWS 337; LAWS 366

RP: CRJU 201/SOCI 218; CRJU 307/LAWS 365

EQ: LAWS 366

CRJU301-21S1 (C) Semester 1

CRJU 302 Prisons and Corrections

30 Points 0.2500 EFTS

This course introduces students to the New Zealand correctional system and demonstrates how it has evolved since 1840. It then examines various aspects of the correctional system in detail.

P: (1) Any 30 points at 200 level in SOCI or ANTH, or (2) Any 60 points at 200 level from the

Schedule V of the BA, or (3) i. CRJU 201 and either ii. CRJU 202 or LAWS 202

R: SOCI 358

EQ: SOCI 358

CRJU302-21S2 (C) Semester 2

CRJU 304 Research Essay in Criminal Justice

15 Points 0.1250 EFTS

A Research Essay for students who have a particular interest in some specific aspect of Criminal Justice and a B average in appropriate 200 level courses, sufficient to demonstrate that they are capable of relatively independent research work and scholarly writing.

P: CRJU 201 and either CRJU 202 or LAWS 202, and a further 30 points at 200 level from Schedule C to the Bachelor of Criminal Justice and Head of Department Approval.

CRJU304-21W (C) Whole Year (S1 and S2)

CRJU 307 Issues in Policing, Prosecution and Alternatives to Prosecution

15 Points 0.1250 EFTS

Policing theories; police powers to arrest and search; prosecution process, diversion, restorative justice; youth justice; alternatives to traditional court prosecution of offenders; Criminal Procedure (Mentally Impaired Persons Act) 2003

P: CRJU 202 or LAWS 202.

R: LAWS 337, LAWS 365

RP: CRJU 201/SOCI 218

EQ: LAWS 365

CRJU307-21S2 (C) Semester 2

CRJU 308 The Principles of Evidence

15 Points 0.1250 EFTS

The course aims to provide a sound academic grounding in key principles of the law of evidence. It will examine the key topics of relevance, reliability, probative value, illegitimate prejudice, the influence of human rights, burden of proof, rules of inadmissibility (including hearsay, veracity and propensity and privilege), and trial procedure. In focusing on these key aspects of the law of evidence this course will adopt a strong principle based approach in which the theoretical underpinnings of the development of the law will be examined and discussed.

P: (1) CRJU 202 and 45 additional points at 200 level from Schedule C to the Bachelor of Criminal Justice, or (2) LAWS 202 and 30 additional points at 200 level from Schedule C to the Bachelor of Criminal Justice.

R: LAWS 316, LAWS 307

EQ: LAWS 307

CRJU308-21S2 (C) Semester 2

Tāura | Postgraduate

Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.

CRJU 601 Research Methods in Criminal Justice

30 Points 0.2500 EFTS

This course provides an introduction to the techniques used in criminal justice research. The goal of this course is to help students develop an understanding of the kinds of research conducted

in the criminal justice field, the role of the researcher, general steps in the research process, and research design, statistical analysis and kaupapa Māori research methods. In addition, attention will be given to the ethical issues the researcher must consider when designing research and the process of ethical approval. Finally, the course will explore the application of research findings to real world situations.

P: Subject to the approval of the Head of Department of Law.

CRJU601-21S1 (C) Semester 1

CRJU 602 Criminal Justice Systems

30 Points 0.2500 EFTS

This course will examine the approaches, practices and processes, and responsible institutions that make up criminal justice systems both in Aotearoa New Zealand and in other jurisdictions. It will consider the factors involved in the decisions and practices in these systems and their functions and dysfunctions, and will also consider current issues and potential reform in these areas.

P: Subject to the approval of the Head of Department of Law.

CRJU602-21S1 (C) Semester 1

CRJU 603 Contemporary Issues In Criminal Justice

30 Points 0.2500 EFTS

This course will examine issues of critical importance to the nature and quality of criminal justice. It will consider the political, societal and cultural influences on the emergence of these issues, and evaluate the resilience of criminal justice systems in responding to these issues.

P: Subject to the approval of the Head of Department of Law.

CRJU603-21S2 (C) Semester 2

CRJU 604 Internship

30 Points 0.2500 EFTS

This course provides students with the opportunity to apply the knowledge and skills they have acquired in other parts of the Master of Criminal Justice in a professional environment. Placements in areas such as police, corrections and justice as well as non-governmental organisations with an emphasis on criminal justice issues or advocacy will not only give students workplace experience relevant to their degree, but will introduce them to professional ethics, standards and conduct in the criminal justice sphere. Combined with an academic component, which will be relevant to the placement, the internship is intended to help facilitate students' transformation from university students to criminal justice professionals able to reflect critically on both their own performance and organisational culture.

P: Subject to the approval of the Head of Department of Law.

CRJU604-21S2 (C) Semester 2

CRJU 605 Professional Cultures

30 Points 0.2500 EFTS

This course provides students with the opportunity to think critically and reflectively about an organisation, policy or process of reform in the criminal justice sphere. With the help of an academic supervisor, students will research, plan and present a project, which investigates some part of the criminal justice system unrelated to their dissertation topic and allows them to reflect on and assess the professional standards and culture in that area, while gaining skills in the area of project planning, reporting and time management.

P: Subject to the approval of the Head of Department of Law.

CRJU605-21S2 (C) Semester 2

CRJU 680 Dissertation

60 Points 0.5000 EFTS

This course will provide candidates with an opportunity to research and present an extended piece of academic writing that engages with the analysis of one or more key issues in the field of criminal justice. The course will offer training in advanced skills relating to qualitative and/or quantitative analysis and will assess the ability of candidates to present cogent analysis to a professional and informed audience in both a written and an oral format. All CRJU680 candidates are required to produce a Dissertation of 20,000 words on a subject of the candidate's choice.

P: Subject to the approval of the Head of Department of Law.

CRJU680-21FY (C) Full Year (February to February)

Cultural Studies

School of Humanities and Creative Arts

CULT 114 Aotearoa - Introduction to New Zealand Treaty Society

15 Points 0.1250 EFTS

Beginning with the Treaty of Waitangi, this course looks at significant events and issues in the shaping of contemporary New Zealand society. The course will explore issues ranging from early Pakeha settlement, the Treaty of Waitangi, colonisation, the NZ wars through to Māori activism, Treaty settlements and claims to self-determination.

R: MAOR 108, MAOR 113 (prior to 2006)

EQ: MAOR 108

CULT114-20SU2 (D) Summer (Nov 20)

CULT114-21S2 (C) Semester 2

CULT114-21S2 (D) Semester 2

CULT 150 Music in Aotearoa New Zealand

15 Points 0.1250 EFTS

A broad-genre approach to the history of music in and of Aotearoa New Zealand, with particular emphasis on notions of identity in a bicultural society, musical identity, sound and place.

R: MUSA 150

EQ: MUSA 150

CULT150-21S2 (C) Semester 2**CULT 201 Media Audiences**

15 Points 0.1250 EFTS

How does our media consumption shape our opinions, actions, identities and lives? How do audiences influence the production and circulation of media? How do we create our own media presence online, and act as an audience for each other? This course will examine the relationship between audiences and media. We will discuss theory and research that represents audiences as passive consumers of media products, active decoders of media texts, producers of our own representations online, and participants in interactive media production. The course will look at a broad range of media forms (such as television, radio, film, the Internet, social networking, home theatre, cell phones and videogames), and content (including violence, music, reality television, soap operas, news, Facebook, Twitter, and blogs). "Media Audiences" will encourage you to reflect on your own relationship with media, and to consider the broader contexts that shape your listening, viewing, reading, and interaction. We will also be intertwining the theory of audiences with a 'live' research exercise which will guide you through the necessary steps to conducting your own research.

P: Any 15 points at 100 level from COMS or CULT, or any 60 points at 100 level from the Schedule V of the BA.

R: COMS 201

EQ: COMS 201

CULT201-21S2 (C) Semester 2**CULT 202 Cultural Politics/ Cultural Activism**

15 Points 0.1250 EFTS

The course considers the strategic roles that culture can play in influencing political and social change, studying a wide variety of cultural texts and practices.

P: Any 15 points at 100 level from CULT or ENGL, or any 60 points at 100 level from any subject.

R: ENGL 232

EQ: ENGL 232

CULT202-21S1 (C) Semester 1**CULT 206 From Bambi to Kong: The Animal in Popular Culture**

15 Points 0.1250 EFTS

This course provides an introduction to human-animal studies through an analysis of cinematic representations of animals and the environment across horror and science fiction genres, animation, comedy and documentary.

P: Any 15 points at 100 level from CULT or ENGL, or any 60 points at 100 level from the Schedule V of the BA.

R: AMST 236, AMST 331, ENGL 243, GEND 213, GEND 311, and ENGL 349

EQ: ENGL 243

CULT206-21S1 (C) Semester 1**CULT206-21S1 (D) Semester 1****CULT 207 Constructing Bodies**

15 Points 0.1250 EFTS

This course examines a variety of body modification and management practices, such as cosmetic surgery, sexual enhancement technologies and body piercing, and considers the ways in which particular forms of embodiment challenge common understandings about bodies, gender and sexuality.

P: Any 15 points at 100 level from CULT or SOCI, or any 60 points at 100 level from the Schedule V of the BA.

R: GEND 102, FMST 102, GEND 112, AMST 113, CULT 112, AMST 142, GEND 201, SOCI 202

EQ: GEND 201, SOCI 202

CULT207-21S2 (C) Semester 2**CULT 209 Humans, Animals and Society**

15 Points 0.1250 EFTS

This course introduces students to the study of human relations with other species and the natural world. It provides students with the opportunity to question taken for granted assumptions about nature, the environment and the roles of animals in society and the human services. The topic adopts a social justice approach and includes consideration of issues such as ecofeminism, animal liberation and speciesism in relation to other forms of oppression. The course provides students with the opportunity to question taken for granted assumptions about power as well as encouraging students to think about the nature, form and process of advocacy on behalf of the marginalized.

P: Any 15 points at 100 level from HSRV or CULT, or any 60 points at 100 level from the Schedule V of the BA.

R: HSRV 209

EQ: HSRV 209

CULT209-21S1 (D) Semester 1**CULT209-21S1 (C) Semester 1****CULT 219 Te Tiriti: The Treaty of Waitangi**

15 Points 0.1250 EFTS

This course uses the Treaty of Waitangi to frame examinations of contemporary New Zealand society. We ask questions designed to highlight and emphasise the relevance of the Treaty of Waitangi to everyday New Zealanders. In addition, the course looks at the importance of this document in the maintenance of Crown and Māori relations. Topics covered range from the signing of the Treaty, and historical developments, to the protest movements and activism of the continuing Māori renaissance period, race relations and one law-for-all.

P: Any 15 points at 100 level from CULT, HIST, HSRV, MAOR, POLS, SOCI, or TREO, or any 60 points at 100 level from the Schedule V of the BA.

R: MAOR 219, POLS 218, POLS 258, HIST 268, SOCI 209, HSRV 207

EQ: MAOR 219, POLS 218, POLS 258, HIST 268, SOCI 209, HSRV 207

CULT219-21S2 (C) Semester 2**CULT 252 Crime Stories**

15 Points 0.1250 EFTS

The course addresses the usefulness and range of the crime genre as an appropriate focus for the acquisition of the skills (in research, critical analysis, and written expression) peculiar to English studies, as well as a form of social and political critique. It will particularly concentrate on the last two centuries of the representations of crime, detection, confession, and punishments, assaying major trends and preoccupations present in a range of texts and theories. Within a general contextual examination of engagements between these facets, the development of genre forms and concerns will be considered, especially because the genre often speculates the fears and desires of its time in ways that likewise shape wider perceptions of crime and punishment. Students will be expected to read a range of key material, including a small selection of novels, some short fiction, theoretical writings and visual texts that should represent differences and similarities in representation and subject choice that writers and directors negotiate.

P: Any 15 points at 100 level from CULT or ENGL, or any 60 points at 100 level from the Schedule V of the BA.

R: ENGL 252; ENGL 352; CULT 352

EQ: ENGL 252

CULT252-21S2 (C) Semester 2**CULT 302 Takahi: Colonisation**

30 Points 0.2500 EFTS

Colonisation has had a significant effect on the shaping of contemporary New Zealand society. This course will cover key events in the colonisation throughout New Zealand's brief colonial history. This course utilises different theories of colonisation to critically examine the continued subjugation of Indigenous Peoples in Aotearoa and around the world. Special attention will also be paid to breaking down the power relationships that have emerged between coloniser and colonised.

P: Any 30 points at 200 level from CULT, HIST, or MAOR, or any 60 points at 200 level from the Schedule V of the BA.

R: MAOR 317, RELS 322, HIST 366

EQ: MAOR 317, RELS 322, HIST 366

CULT302-21S2 (C) Semester 2**CULT 303 Sexualities in Culture**

30 Points 0.2500 EFTS

This course analyses representations and models of 'normal' and 'abnormal' sexuality as these occur in sexology, psychiatry, self-help psychology, cinema and popular culture, and queer activism.

P: Any 30 points at 200 level from CULT or ENGL, or any 60 points at 200 level from the Schedule V of the BA.

R: AMST 332, ENGL 332, GEND 307, GEND 211

EQ: ENGL 332

CULT303-21S1 (C) Semester 1**CULT 310 Sociology of the City**

30 Points 0.2500 EFTS

This course is concerned with the city as it is experienced today: as shifting mixes of public and private spaces in which disruptions provoke different points of view, multiple memories and complex associations.

P: Any 30 points at 200 level from CULT or SOCI, or any 60 points at 200 level from the Schedule V of the BA.

R: SOCI 292, SOCI 392, SOCI 255, CULT 210, SOCI 355

EQ: SOCI 355

CULT310-21S1 (C) Semester 1**CULT 319 Ngāti Āpōpō: Māori Futures**

30 Points 0.2500 EFTS

This course explores the local, national and global trends that will materially impact on the future trajectory of Māori self-determination and futures making. Students will investigate how Māori navigate such shifts and trends to advance self-determination as change agents.

P: Any 30 points at 200 level from CULT, MAOR or POLS, or any 60 points at 200 level from the Schedule V of the BA.

R: MAOR 301, POLS 331, POLS 358

EQ: MAOR 301, POLS 331, POLS 358

CULT319-21S2 (C) Semester 2

CULT 322 Documentary: From the Margins to the Mainstream

30 Points 0.2500 EFTS

This course examines the artistic and political principles that govern the representation of reality in contemporary documentary film.

P: Any 30 points at 200 level from CINE or CULT, or any 60 points at 200 level from the Schedule V of the BA.

R: CINE 302

EQ: CINE 302

CULT322-21S2 (C) Semester 2**CULT 335 Reading Animals: Beast Fables to Graphic Novels**

30 Points 0.2500 EFTS

This course explores the role of imagery and narrative in constituting historical and contemporary conceptions of 'animality' and speciesism across a range of texts and media (including bestiaries, folklore and mythology; field guides and natural histories; wildlife documentaries; zoo display; activist art; science fiction and graphic novels; popular gastronomy).

P: Any 30 points at 200 level from CULT or ENGL, or any 60 points at 200 level from the Schedule V of the BA.

R: ENGL 318

EQ: ENGL 318

CULT335-21S2 (C) Semester 2**CULT 352 Crime Stories**

30 Points 0.2500 EFTS

The course addresses the usefulness and range of the crime genre as an appropriate focus for the acquisition of the skills (in research, critical analysis, and written expression) peculiar to English studies, as well as a form of social and political critique. It will particularly concentrate on the last two centuries of the representations of crime, detection, confession, and punishments, assaying major trends and preoccupations present in a range of texts and theories. Within a general contextual examination of engagements between these facets, the development of genre forms and concerns will be considered, especially because the genre often speculates the fears and desires of its time in ways that likewise shape wider perceptions of crime and punishment. Students will be expected to read a range of key material, including a small selection of novels, some short fiction, theoretical writings and visual texts that should represent differences and similarities in representation and subject choice that writers and directors negotiate.

P: Any 30 points at 200 level from CULT or ENGL, or any 60 points at 200 level from the Schedule V of the BA.

R: ENGL 252; ENGL 352; CULT 252

CULT352-21S2 (C) Semester 2**PACE 395 Internship**

30 Points 0.2500 EFTS

What can you do with your major? With your degree? The purpose of the internship course is to explore both the ideological and practical assumptions guiding this question. The course is designed to be a critical, theoretical and "real-world" examination of the practices and ideologies inherent in both community and business organisations. You will apply the analytical skills acquired through your major, and through class seminars and readings, to a project designed by a local company or community group. Please check out the website for further information and specific project descriptions: www.arts.canterbury.ac.nz/internships

P: 150 points, special application and interview, and permission of the Internship Director.

R: ARTS 395

EQ: ARTS 395

PACE395-20SU2 (C) Summer (Nov 20)**PACE395-21A (C) Starts Anytime****PACE395-21S1 (C) Semester 1****PACE395-21S2 (C) Semester 2**

Limited entry. See limitation of entry regulations. A student will be selected for a specific project. Only students accepted for projects will be allowed into the course. Please go to <http://www.arts.canterbury.ac.nz/internships> for more information.

Tāura | Postgraduate

Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.

CULT 402 Cultural Studies, Supervised Research

30 Points 0.2500 EFTS

An introduction to postgraduate-level research in Cultural Studies.

P: Subject to approval of the Programme Director.

CULT402-21S1 (C) Semester 1**CULT402-21S2 (C) Semester 2****CULT 418 Intersectionalities: Humans, Animals and Otherness**

30 Points 0.2500 EFTS

In recent years, scholars in the humanities have broadened out from a narrow focus on knowledge about 'the human' and begun to investigate wider aspects of the nonhuman material world - especially the relationships between human culture, animals, environments and ecologies. These tendencies - variously labeled ecocriticism, zoöcriticism, anthrozoology and Human-Animal Studies (HAS) - are now generating some of the most vigorous and compelling work by researchers in Humanities disciplines. CULT418 offers an in-depth examination of key areas of this new interdisciplinary field.

P: Subject to approval of the Programme Director.

R: ENGL 411

EQ: ENGL 411

CULT418-21S2 (C) Semester 2**CULT 419 The Policies and Politics of Sex**

30 Points 0.2500 EFTS

This course provides students with an interest in human service practice the opportunity to investigate shifting socio-cultural constructions of sexuality with an emphasis on the contradictions and complexities in the social regulation of sexuality and the contours of state control. Issues relating to human service practice explored in the course include: reproductive rights; law reforms, queer culture and homophobia; local and international control of prostitution; the emergence of sexual rights; pornography and eroticism; sex education and the hidden curriculum; sex and harassment; sexual violence; safe sex and the HIV/AIDS era; sexuality and ageing; cultural sexualities; the medicalisation of sexuality and the transgendered body.

P: Subject to approval of the Programme Director.

R: HSRV 407

EQ: HSRV 407

CULT419-21S1 (C) Semester 1**CULT 420 Te Matakahi: Indigenous Critical Theory**

30 Points 0.2500 EFTS

Theory for Māori and indigenous scholars. The study of counter-hegemonic theory in contemporary post-colonial states. How resistance theory and praxis evolved in response to colonial expansion, assimilation and other violence. The contribution of emancipatory theorising. Limits and restrictions placed upon indigenous options by neoliberalism, biculturalism and multiculturalism, and, self-locking within the coloniser-colonised binary. Can we maintain resistance and create new spaces and practices 'outside' of this relationship? Theorists include Frantz Fanon, Albert Memmi, Edward Said, Malcolm X, Homi Bhabha, Gayatri Spivak and others.

P: Subject to approval of the Programme Director.

R: MAOR 401

EQ: MAOR 401

CULT420-21S1 (C) Semester 1**CULT 650 MA Dissertation**

60 Points 0.5000 EFTS

MA Dissertation

P: Subject to approval of the Head of Department.

CULT650-21A (C) Starts Anytime**CULT650-21S1 (C) Semester 1****CULT650-21S2 (C) Semester 2****CULT 690 MA Thesis**

120 Points 1.0000 EFTS

P: Subject to approval of the Programme Director.

CULT690-21A (C) Starts Anytime

Part-time enrolment (0.65 EFTS) is available on approval.

CULT 790 Cultural Studies PhD

120 Points 1.0000 EFTS

P: Subject to approval of the Programme Director.

CULT790-21A (C) Starts Anytime

*Part-time enrolment (0.65 EFTS) is available on approval. *From 1 January 2008, international students who are residing in New Zealand on a NZ Immigration Study Visa pay the Domestic Fee for this course. International fees apply for all other courses.*

Data Science**School of Mathematics and Statistics****DATA 101 Introduction to Data Science**

15 Points 0.1250 EFTS

Data Science is a fast growing, important, and globally in-demand discipline. This course is designed to introduce students to the fundamentals of this field. It will start by introducing key mathematical and statistical concepts and applications like exploratory data analysis, probability (with a focus on essential theories, discrete and continuous random variables), modelling, inference, and bivariate data. It will also address a range of more applied topics where data is important to making decisions, including data wrangling, data analysis, and data visualisation, supported by the statistical programming language R.

P: 1. MATH 101, or 2. NCEA 14 Credits at level 3 Mathematics, or 3. Cambridge: D at A level or an A at AS level in Mathematics, or 4. IB: 4 at HL or 5 at SL in Mathematics, or 5. Approval of the Head of School based on alternative prior learning.

R: STAT 101

DATA101-21S2 (C) Semester 2

GISC 101 Introduction to Spatial Data Science

15 Points

0.1250 EFTS

Spatial Data Science deals with the processing, manipulation, analysis and visualization of spatial data in a variety of forms. Spatial data are those which contain geographical coordinates enabling them to be used for spatial analysis and mapping and include, for example, images from remote sensing, coordinates collected using navigation technologies, or census information by area, among many others. Spatial data are fundamental to many geographical analyses and spatial data science draws strongly from key geographical concepts - such as Tobler's classic 1970 law: "everything is related to everything else, but near things are more related than distant things". This course provides a practical introduction to concepts and methods in data science for the analysis of spatial data. By completing the course, you will gain an understanding of the key concepts in spatial data and their collection, how to represent the environment and the world in spatial data, and the ability to apply basic spatial analysis techniques to geographic data using open source platforms such as R, QGIS, and Python. You will develop skills such as importing, manipulating, analyzing, and visualizing spatial data particularly using algorithms in R and Python. You will also develop an awareness of the current limitations and implications of geographic technology, its future development and data stewardship (particularly bi-cultural aspects of stewardship).

GISC101-21S2 (C)**Semester 2****DATA 201 Data Wrangling**

15 Points

0.1250 EFTS

This course introduces students to data cleaning, standardisation, and the integration of disparate data sources and structures. Students will learn how to convert data from many different sources into a consistent format ready for analysis, and will learn about data quality, ethics, management, storage, and persistence.

P: 15 Points of 100-level COSC, MATH or STAT or INFO 125

DATA201-21S2 (C)**Semester 2****DATA 203 Data Science Multivariable Methods**

15 Points

0.1250 EFTS

This course develops foundations for data science techniques. The focus of this course is on applications to modern data processing problems. Students will be introduced to multivariate statistical, linear algebra and calculus topics that are needed in data science and related subjects.

P: MATH 102 and (either STAT 101 or DATA 101)

R: MATH 203 / EMTH 211

DATA203-21S1 (C)**Semester 1****DATA 301 Big Data Computing and Systems**

15 Points

0.1250 EFTS

The course introduces distributed computational techniques, distributed algorithms and systems/programming support for large-scale processing of data.

P: COSC 262

DATA301-21S1 (C)**Semester 1****DATA 303 Computational Data Methods**

15 Points

0.1250 EFTS

This course extends multivariate data science techniques to topics such as classification, data fitting, regularization and regression. The focus of this course is on the methods which support many modern data processing applications. Students will be introduced to multivariate statistical techniques, linear algebra and calculus topics that are needed in data science.

P: MATH 203 or DATA 203 or EMTH 211

R: MATH 303

DATA303-21S2 (C)**Semester 2****DATA 309 Data Science Capstone Project**

30 Points

0.2500 EFTS

This course will develop your ability to undertake research in data science. Your project will be motivated by a real data science problem, and you will design and complete a research project towards a solution. You will work in a group, with group supervision and, where appropriate, will meet with your data science industry contact. The course consists of regular lectures/tutorials and project group meetings, supported by web-based resources. You will present your findings to other students and stake holders, and prepare a written report. The emphasis is on working together to solve real-life data science problems using skills that are transferable to the workplace.

P: Subject to approval of the Head of Department.

DATA309-21S2 (C)**Semester 2****DATA401-21S1 (C)****Semester 1****DATA401-21S2 (C)****Semester 2****DATA401-21X (C)****29 Nov 2021 - 13 Feb 2022****DATA 415 Computational Social Choice**

15 Points

0.1250 EFTS

This course provides a thorough introduction to both classical and computational social choice. Social choice theory is the study of mechanisms for collective decision making, such as voting rules or protocols for fair division. Computational social choice addresses problems at the interface of social choice theory with computer science, it uses concepts from social choice theory in the presence of big datasets. This course will introduce some of the fundamental concepts in social choice theory and how they are used in today's data science. The topics covered include material in voting theory, preference aggregation, judgment aggregation, and fair division.

P: Subject to approval of the Head of Department of Mathematics and Statistics.

DATA415-21S2 (C)**Semester 2****DATA 416 Contemporary Issues in Data Science**

15 Points

0.1250 EFTS

This course focuses on the technical challenges in data science that societal and regulatory actions pose. It aims to introduce students the often very different and sometimes even conflicting perspectives from which policymakers and the technical community approaches these problems. We will review and discuss different examples from different areas of data science such as the extent to which machine learning and deep learning techniques conform with GDPR regulations on transparency, explainability, and accountability; impossibility theorems showing off the limits of data science methods; the mathematical foundations and data science techniques for mechanism design in order to manipulate beliefs (represented as transitive, anti-symmetric, and complete binary relations); and provide students as potential future product developers with the necessary knowledge to engage in responsible product development practices that are informed by regulatory requirements and expectations. This course develops students' understanding of the role of data science in decision making and the impact of data science in the design of AI systems. The course reflects the main issues of controversy identified in international policy debates.

P: Subject to approval of the Head of Department of Mathematics and Statistics.

DATA416-21S2 (C)**Semester 2****DATA 417 The Trustworthy Data Scientist**

15 Points

0.1250 EFTS

This course will stimulate students to think about the ethical facets of their data scientific projects and provide them with conceptual and practical tools to assess said project. The ethics and security of data collection, storage, manipulation, analysis and communication is of paramount importance in our information based society. This course faces these topics from the point of view of data scientists-rather than consumers or data subjects-enabling the student to become trustworthy professionals. The students will learn to identify risk and opportunities related to fairness, agency, interpretability, and security. Māori Data Sovereignty, Te Mana Raraunga, and its relevance for data scientist in New Zealand will be introduced. The course will follow a flipped class-room flow. Fundamental concepts will be first introduce via guided discussions and hands-on-data exercises during the laboratories. In the lectures, the understanding of concepts and tools introduced in the laboratories is made rigorous and generalised.

P: Subject to approval of the Head of Department of Mathematics and Statistics.

DATA417-21S1 (C)**Semester 1****DATA 419 Online Communities and Social Networks**

15 Points

0.1250 EFTS

This course introduces to the analyses of online communities and social networks. Students will learn to formulate scientific questions about the online dynamics and use open software to collect, organize, model, and communicate data from common social networks.

P: Subject to approval of the Head of Department of Mathematics and Statistics.

DATA419-21S1 (C)**Semester 1****DATA 420 Scalable Data Science**

15 Points

0.1250 EFTS

This course will introduce students to core topics in scalable data science based on distributed-computing techniques. This is a very practical course, with students learning by experimenting on a computer cluster.

P: Subject to approval of the Head of Department of Mathematics and Statistics.

DATA420-21S1 (C)**Semester 1****DATA420-21S2 (C)****Semester 2****DATA 422 Data Wrangling for Data Science**

15 Points

0.1250 EFTS

This course develop students skills in data cleaning and processing, data integration techniques and implementing data wrangling workflows for a real world datasets.

P: Subject to approval of the Head of Department of Mathematics and Statistics.

DATA422-21S2 (C)**Semester 2****Tāura | Postgraduate**

Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.

DATA 401 Statistics

15 Points

0.1250 EFTS

This course covers the development of statistical concepts and their application to complex systems.

P: Subject to approval of the Head of School

DATA 423 Data Science in Industry

15 Points 0.1250 EFTS

In this course we will address core topics in the application of data science in industry.

P: Subject to approval of the Head of Department of Mathematics and Statistics.

DATA423-21S1 (C)	Semester 1
DATA423-21S2 (C)	Semester 2

DATA 424 Information Is Beautiful

15 Points 0.1250 EFTS

This course will introduce students to the truthful art of visualizing data. The students will use an iterative design process to create visualizations that are truthful, functional, beautiful, insightful and enlightening. The lectures will consist of presentations, critiques, in-class exercises and discussions. This course will enable students to select appropriate visualization methods for their data and solve practical data science communication problems. They will consider the context and the intended reader to focus the story their data will tell. The students will learn to use the Tableau software, which will be made available for their own computers within the framework of this course. The course will provide a supportive environment in which students can experiment with the aesthetics of data visualization. Students will need to be familiar with basic data manipulation principles and the process of data gathering and cleaning.

P: Subject to approval of the Head of Department of Mathematics and Statistics.

DATA424-21S2 (C)	Semester 2
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DATA 428 Data Science Project

15 Points 0.1250 EFTS

This course provides students with an opportunity to develop data science skills to extend and strengthen their understanding of an area of data science.

P: Subject to approval of the Head of Department of Mathematics and Statistics.

DATA428-21S1 (C)	Semester 1
DATA428-21S2 (C)	Semester 2

DATA 429 Data Science Independent Study

15 Points 0.1250 EFTS

This course provides students with an opportunity to develop data science skills in a specific area of data science. The intent of the course is to provide students with an opportunity to work on a data science industry topic with an academic supervisor.

P: Subject to approval of the Head of Department of Mathematics and Statistics.

DATA429-21S1 (C)	Semester 1
DATA429-21S2 (C)	Semester 2

DATA 430 Medical Data Informatics

15 Points 0.1250 EFTS

This course explores statistical models, algorithms, and programming platforms for medical data including imaging, clinical and research text reports, lab results, and patient records.

P: Subject to approval of the Head of Department of Computer Science and Software Engineering.

DATA430-21S2 (C)	Semester 2
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Limited entry. See limitation of entry regulations.

DATA 472 Special Topic

15 Points 0.1250 EFTS

P: Subject to the approval of the Head of School

DATA472-21S1 (C)	Semester 1
DATA472-21S2 (C)	Semester 2

DATA 473 Special Topic: Foundations of Deep Learning

15 Points 0.1250 EFTS

P: Subject to the approval of the Head of School

DATA473-21S1 (C)	Semester 1
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DATA 474 Special Topic

15 Points 0.1250 EFTS

P: Subject to approval of the Head of Department of Mathematics and Statistics.

DATA474-21S1 (C)	Semester 1
DATA474-21S2 (C)	Semester 2

DATA 480 Research Project

30 Points 0.2500 EFTS

Project

P: Subject to the approval of the Programme Director

DATA480-21W (C)	Whole Year (S1 and S2)
DATA480-21CY (C)	Cross Year

DATA 601 Applied Data Science Project

45 Points 0.3750 EFTS

This project will give you the skills, and experience to work in a team to solve real world data science problems.

P: Subject to the approval of the Head of School

DATA601-21A (C)	Starts Anytime
DATA601-21X (C)	15 Nov 2021 - 13 Feb 2022

DATA 690 MSc thesis

120 Points 1.0000 EFTS

P: Subject to the approval of the Programme Director

DATA690-21A (C)	Starts Anytime
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Digital Arts, Social Sciences and Humanities

*School of Humanities and Creative Arts***DIGI 101 Working in a Digital World**

15 Points 0.1250 EFTS

This course provides students with an understanding of how the digital world is engineered, and exposes them to a range of tools commonly used by knowledge workers. Students will learn to critically evaluate systems from both a technical and human point of view.

R: COSC 110, COSC 101

DIGI101-21S1 (C)	Semester 1
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DIGI 103 Statistics 1

15 Points 0.1250 EFTS

An introduction to the ideas, techniques and applications of statistics and probability.

R: STAT 101

EQ: STAT 101

DIGI103-21S1 (C)	Semester 1
DIGI103-21S2 (C)	Semester 2

DIGI 125 Music Technologies

15 Points 0.1250 EFTS

Development of knowledge of Digital Audio Workstations (DAWs) and the fundamentals of using computers for digital sampling, mixing and editing. Developing skills in the use of computer-based music notation technologies.

R: MUSI 125, MUSA 125

EQ: MUSA 125

DIGI125-21S1 (C)	Semester 1
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DIGI 204 Communicating with Data and Digital Media

15 Points 0.1250 EFTS

This course introduces data communication techniques and topics, and will provide students with a toolkit to analyse and evaluate the use of data and digital platforms in a range of contexts, including data-driven social research and communication. We focus on the preparation and visualisation of tabular and social network data, writing and evaluating web content in relation to data practices, and critical topics such as privacy and the datafication of everyday life.

P: Any 60 points at 100-level.

DIGI204-21S1 (C)	Semester 1
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DIGI 205 Introduction to Geographic Information Systems

15 Points 0.1250 EFTS

Geographic Information Systems (GIS) provide the tools for managing, analysing and presenting spatial information in an intuitive and graphical way. This course provides students with an introduction to the fundamental concepts, principles and techniques of GIS. The course examines the use of geographic technology including global positioning systems as well as GIS. It also introduces you to the development of GIS and GPS software skills, including ArcView.

P: Any 30 points at 100 level from the BA, BE (Hons), BSc or Bcom.

R: GEOG 205

DIGI205-21S1 (C)	Semester 1
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DIGI 207 Social Media

15 Points 0.1250 EFTS

This course prepares students to do public communication in a rapidly changing media environment. The first half of the course explores how a range of social media platforms work and how professional communicators are attempting to use it. Topics will include networks, convergence culture, privacy and new forms of public life. In the second half of the course students will apply these ideas in a community or workplace environment. This course involves community and work-integrated learning.

P: Any 15 points at 100 level from COMS or DIGI, or any 60 points at 100 level from the Schedule V of the BA.

R: COMS 222, COMS 207

EQ: COMS 207

DIGI207-21S1 (C)	Semester 1
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DIGI 223 Text Analytics

15 Points

0.1250 EFTS

This course introduces quantitative methods for understanding the vast amount of information and human knowledge that has been stored in the form of text data.

P: 15 points at any level from any subject.

R: LING 223

EQ: LING 223

DIGI223-21S1 (C)**Semester 1****DIGI223-21S1 (D)****Semester 1**

Digital Humanities

School of Humanities and Creative Arts

Tāura | Postgraduate

Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.

DIGI 403 Digital Project

30 Points

0.2500 EFTS

An applied course designed to help students develop their own digital projects. No technical background is required. Students will acquire valuable transferable skills, learn how to apply digital tools and methods to research questions, and understand how scholarly knowledge can be delivered through digital channels.

P: Subject to approval of the Programme Coordinator.

DIGI403-21S2 (C)**Semester 2****DIGI 404 Digital Humanities: Tools, techniques and theories**

15 Points

0.1250 EFTS

Digital Humanities examines the use of computing tools and digital research methods to study culture and society. This course will explore techniques for accessing and analysing digital texts and images alongside the theoretical and methodological frameworks of digital humanities. We will cover topics such as digitisation, digital access, information extraction, markup languages, network analysis and digital image analysis. Students will be able to explore aspects that relate to their research or professional interests through project work in the second part of the course. The course is taught through a combination of practical workshops, lectures and student-led activities and discussion.

P: Subject to approval of the Programme Coordinator.

R: DIGI 401

DIGI404-21S1 (C)**Semester 1****DIGI 405 Texts, Discourses and Data: the Humanities and Data Science**

15 Points

0.1250 EFTS

This course examines computer-aided methods used in digital humanities and the social sciences for analysing discourses, an object of study that draws together multiple ways that language reflects and shapes social meanings. Within this context, it introduces concepts and methods for analysing natural language data and applies these through a series of practical lab classes. The first part of the course focuses on classic discourse analysis methods drawn from corpus linguistics, as well as the essential preprocessing steps used to prepare texts for a range of analytical purposes. In the second part of the course we study topic modeling, a technique for unsupervised, exploratory data analysis that has been widely used in digital humanities, and, finally, consider supervised text classification methods to identify discursive attributes such as sentiment, genre, or style.

P: Subject to approval of the Programme Coordinator.

DIGI405-21S1 (C)**Semester 1****DIGI405-21S1 (D)****Semester 1****DIGI405-21S2 (C)****Semester 2****DIGI405-21S2 (D)****Semester 2****DIGI 480 Research Essay**

30 Points

0.2500 EFTS

Students taking Digital Humanities Research Essay produce a single 10,000 word essay. The course requires scholarly research, engagement with broader humanities discourse(s), and high bibliographic standards. Focus is on the development of critical and analytical skills that will enable students to move on to Masters and Doctoral studies. Students will be taught how to write about technical subjects in an informed manner, and produce critiques of new media and digital culture. Co-supervision will be organised where appropriate. When available, students will be encouraged to pursue internship and work experience opportunities relevant to their area of study after completion.

P: Subject to approval of the Programme Coordinator.

DIGI480-21S1 (C)**Semester 1****DIGI480-21S2 (C)****Semester 2****DIGI 650 MA Dissertation**

60 Points

0.5000 EFTS

MA Dissertation

P: Subject to approval of the Head of Department.

DIGI650-21A (C)**Starts Anytime****DIGI650-21S1 (C)****Semester 1****DIGI650-21S2 (C)****Semester 2**

Disaster Risk and Resilience

Department of Geological Sciences

Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.

DRRE 401 Introduction to Disaster Risk and Resilience

15 Points

0.1250 EFTS

The DRRE401 course provides an introduction to disaster risk and resilience situations, theory and practices. It explores drivers of disaster risk and covers national and international frameworks for disaster risk reduction. The course allows students to undertake natural hazard risk assessments and explore resilience strategies for real life communities in high risk environments (via field trips) and utilises a number of guest lectures from leading international thinkers in this field. The course assumes no background, but progresses to advanced topics throughout the course.

P: Subject to approval of the Programme Director

R: HAZM 401

DRRE401-21X (C)**22 Feb 2021 - 25 Apr 2021****DRRE 402 Natural Hazard Risk Assessment**

15 Points

0.1250 EFTS

The DRRE402 course provides an introduction to natural hazard risk assessment and management theory and practices, with a strong focus on risk communication. The course assumes no background, but progresses to advanced topics throughout the course. The course begins with equipping students with a strong foundation in risk concepts and the risk management process. It then progresses to using risk tools and applications in real world case-studies as part of course assessment. The course includes a number of guest lecturers from industry and local government.

P: Subject to approval of the Programme Director.

R: HAZM 410, ENCI 601

RP: 100-level statistics

DRRE402-21S1 (C)**Semester 1****DRRE402-21T2 (C)****26 Apr 2021 - 06 June 2021****DRRE 403 Disaster Risk and Resilience Applications**

15 Points

0.1250 EFTS

The DRRE403 course develops students' applied research and practical skills, with a focus on disaster risk and resilience. A strong focus of the course is on developing disaster-related communication skills and confidence, during both crisis and non-crisis situations. Students are introduced to contemporary approaches to decision-making under uncertainty, and disaster ethics, and develop transferrable fundamental skills through writing literature reviews and formal research proposals, and by conducting poster and oral presentations. Practical, applied skills are developed through participation in dynamic disaster simulations (including a mock press conference with the UC Journalism programme), and through writing policy briefs for senior leadership (e.g. government ministers).

P: Programme Director approval.

R: HAZM 403

RP: DRRE 401

DRRE403-21S2 (C)**Semester 2****DRRE 404 Special Topic**

15 Points

0.1250 EFTS

An opportunity for students to explore topic areas in the field of disaster risk and resilience that are not addressed in other courses, under the guidance of Disaster Risk and Resilience teaching staff.

P: Subject to approval of the Programme Director

DRRE404-21S1 (C)**Semester 1****DRRE404-21S2 (C)****Semester 2****DRRE 408 GIS for Disaster Risk and Resilience**

15 Points

0.1250 EFTS

This course provides background concepts for utilising Geographic Information Systems in disaster risk and resilience situations and practice. Although the course assumes no background in GIS, it will progress relatively quickly in Term 4 after students have gained initial familiarity with GIS in Term 3.

P: Subject to approval of the Programme Director

R: HAZM 408

DRRE408-21X (C)**22 Feb 2021 - 25 Apr 2021****DRRE 690 Thesis**

120 Points

1.0000 EFTS

P: Subject to approval of the Programme Director

DRRE690-21A (C)**Starts Anytime**

DRRE 691 Professional Project in Disaster Risk and Resilience

60 Points 0.5000 EFTS

This four month dissertation course requires that students undertake a focused disaster risk and resilience-related individual research project under the supervision of at least one member of the Disaster Risk and Resilience Group. The course gives students the chance to develop the skills learnt in DRRE 403. It may be informed by an internship (enrolment in GEOG 415).

P: Subject to approval of the Programme Director

R: HAZM 691

DRRE691-21A (C)

Starts Anytime

DRRE691-21X (C)

08 Nov 2021 - 06 Feb 2022

DRRE 790 Disaster Risk and Resilience PhD

120 Points 1.0000 EFTS

P: Subject to approval of the Programme Director.

DRRE790-21A (C)

Starts Anytime

*Part-time enrolment (0.65 EFTS) is available on approval. *From 1 January 2008, international students who are residing in New Zealand on a NZ Immigration Study Visa pay the Domestic Fee for this course. International fees apply for all other courses.*

Earthquake Engineering

Department of Civil and Natural Resources Engineering

Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.

ENEQ 610 Seismic Hazard and Risk Analysis

15 Points 0.1250 EFTS

Fundamental aspects of earthquakes and faulting, terminology for characterisation of earthquake faults, locating earthquakes, and frequency of earthquake occurrence. Strong ground motion recording and analysis, characterisation of strong ground motion in terms of intensity measures and empirical prediction models. Seismic hazard analysis and the development of design ground motions. Selection and modification of as-recorded ground motions for input in seismic response history analyses. Theoretical considerations in wave propagation and seismic site response analysis. Simulation of strong ground motion time series using deterministic and stochastic methods.

P: Subject to approval of the Head of Department or the Programme Director.

R: ENCI 617

ENEQ610-21X (C)

22 Feb 2021 - 23 May 2021

ENEQ 620 Advanced Geotechnical Earthquake Engineering

15 Points 0.1250 EFTS

Manifestation and evaluation of soil liquefaction, related ground deformation, and lateral spreading. Effects on shallow foundations, analysis and design of piles, effects on buried pipe networks. Advanced liquefaction analysis. Seismic assessment of geotechnical structures within the performance-based framework.

P: Subject to approval of the Head of Department or the Programme Director.

R: ENCI 620

ENEQ620-21X (C)

19 July 2021 - 07 Nov 2021

ENEQ 623 Finite Element Analysis of Structures

15 Points 0.1250 EFTS

Strong, weak, Galerkin, and matrix forms of differential equations; accuracy and characteristics of finite element solutions; isoparametric elements; 1d, 2d, and 3d linear elasticity problems; dynamic analysis of structures with lumped and distributed mass; introduction to nonlinear analysis.

P: Subject to approval of the Head of Department or the Programme Director

ENEQ623-21X (C)

01 Feb 2021 - 02 May 2021

ENEQ 624 Nonlinear Structural Analysis and Dynamics

15 Points 0.1250 EFTS

The objective of this course is for students to develop the necessary theoretical understanding of the principles of nonlinear structural analysis.

P: Subject to approval of the Head of Department or Programme Co-ordinator.

ENEQ624-21X (C)

15 Mar 2021 - 18 July 2021

ENEQ 629 Special Topic: Seismic Soil Structure Interaction

15 Points 0.1250 EFTS

The objective of this course is to provide postgraduate students and practicing engineers with the fundamental concepts and theory of seismic soil-structure interaction (SSI), with special focus on the analytical and numerical tools currently available to account for such problems in earthquake engineering practice. Although the course touches upon important details and aspects of the theory and modeling necessary for seismic problems, emphasis is on the basic concepts required to account for SSI in design and assessment. Both linear and nonlinear aspects of modeling will be covered. Topics: 1. Inertial interaction (system behaviour, impedance functions); 2. Kinematic interaction (slab averaging, embedment effects, piles foundations, use of transfer functions); 3. Models and methods of analysis (substructure and direct approaches;

macroelement concept; critical comparison of different methods); 4. Accounting for SSI in the design of reinforced concrete bridges and wall buildings via force-based methods, displacement based methods, and response history analysis.

P: Subject to approval of the Head of Department or Programme Co-ordinator

ENEQ629-21X (C)

04 Oct 2021 - 19 Dec 2021

ENEQ 633 Special Topic: Advanced Timber Structures

15 Points 0.1250 EFTS

P: Subject to approval of the Head of Department or the Programme Director.

ENEQ633-21X (C)

12 Apr 2021 - 04 July 2021

ENEQ 640 Displacement-based Design of Low Damage Structures

15 Points 0.1250 EFTS

Alternative design philosophies and solutions for the seismic design of low-damage structures. Analysis and design criteria for buildings. Introduction to base-isolation, viscous dampers, PRESS-Technology and the hybrid (rocking-dissipative) system concept. Introduction to and application of Displacement Based Design (DBD). Simplified modelling techniques using lumped plasticity approach. Connection between floor-diaphragm and lateral resisting systems. Capacity Design: Issues and solutions. Examples of on-site applications worldwide in low-, medium- or high-seismic areas. Constructability aspects, sequence and detailing.

P: Subject to approval of the Head of Department or Programme Director

R: ENCI 615

ENEQ640-21X (C)

09 Aug 2021 - 24 Oct 2021

ENEQ 650 Advanced Steel and Composite Structures

15 Points 0.1250 EFTS

Behaviour and design of steel plate shear walls, buckling restrained braces, low-damage systems. Composite steel-concrete structures, stability issues, fatigue, cold-formed structures.

P: ENCI 423 and ENCI 429 or approval of Head of Department or Programme Director.

R: ENCI 611

ENEQ650-21X (C)

05 July 2021 - 26 Sep 2021

ENEQ 682 Special topic: Ground improvement techniques

15 Points 0.1250 EFTS

Ground improvement techniques review and design; Field soil testing and investigation review and interpretation; seismic hazards assessment and remediation; reclaimed land techniques.

P: Subject to approval of the Head of Department or the Programme Director.

ENEQ682-21X (C)

10 May 2021 - 01 Aug 2021

ENEQ 690 Earthquake Engineering ME Thesis

120 Points 1.0000 EFTS

P: Subject to approval of the Head of Department or Programme Director

ENEQ690-21A (C)

Starts Anytime

ENEQ 790 Earthquake Engineering PhD

120 Points 1.0000 EFTS

P: Subject to approval of the Head of Department or Programme Director

ENEQ790-21A (C)

Starts Anytime

Ecology

School of Biological Sciences

Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.

ECOL 480 Project

30 Points 0.2500 EFTS

A written report on a research project approved by the Head of Department. The report must be completed and presented to the Registrar by 1 November in the year in which the student presents the courses selected from BIOL434-493.

P: Subject to approval of the Head of School.

ECOL480-21W (C)

Whole Year (S1 and S2)

ECOL 690 MSc Thesis

120 Points 1.0000 EFTS

P: Subject to approval of the Head of School.

ECOL690-21A (C)

Starts Anytime

Part-time enrolment (0.65 EFTS) is available on approval.

ECOL 790 PhD Thesis

120 Points

1.0000 EFTS

P: Subject to approval of the Head of School.

ECOL790-21A (C)**Starts Anytime**

*Part-time enrolment (0.65 EFTS) is available on approval. *From 1 January 2008, international students who are residing in New Zealand on a NZ Immigration Study Visa pay the Domestic Fee for this course. International fees apply for all other courses.*

Economics

Department of Economics and Finance

ECON 104 Introduction to Microeconomics

15 Points

0.1250 EFTS

Scarcity, exchange and trade. Market analysis and policy. Consumer choice theory. Theory of the firm. Imperfect competition. Externalities and public goods.

R: ECON 199

ECON104-21S1 (C)**Semester 1****ECON104-21S2 (C)****Semester 2****ECON 105 Introduction to Macroeconomics**

15 Points

0.1250 EFTS

This course introduces students to the macro economy and how it evolved to where it is today. We examine economic variables and how rises and falls in these variables affect people and businesses. We investigate how government policies, decisions by households and firms, and changes in the world economy affect inflation, exchange rates, interest rates, unemployment, growth, poverty and inequality and other economic outcomes we care about.

ECON105-21X (D)**22 Feb 2021 - 28 Nov 2021****ECON105-21S1 (D)****Semester 1****ECON105-21S2 (C)****Semester 2****ECON 206 Intermediate Macroeconomics**

15 Points

0.1250 EFTS

ECON 206 provides an understanding of fluctuations of aggregate activity, the growth of a country's standard of living, and how government choices affect these things. We study how people's and firms' decisions about consumption, saving, and investment affect their welfare and wealth, a country's exports and capital flows, and the values of interest and exchange rates. We look at the role of money, inflation, credit, and the financial system in the economy. We use the aggregate demand and supply model to understand why the economy fluctuates and what it means for people's employment and income. Then we see if the government can stop or mitigate the effects of the fluctuations. Finally, we look at how we can improve our standard of living through economic growth.

P: ECON 104 and ECON 105

R: ECON 201

ECON206-21S2 (C)**Semester 2****ECON 207 Intermediate Microeconomics - Households and Government**

15 Points

0.1250 EFTS

ECON 207 is one of two intermediate microeconomics courses which build on the concepts learned in ECON 104. Concepts will be taught with a graphical and/or simple algebraic approach. Most of the first term is spent using the consumer behaviour model to explain optimal consumer decision making with different types of goods. Consumer decision making under risk and uncertainty is also examined. Term two is spent examining what happens when people and businesses are imperfectly informed about their transactions, or about each other. Externalities and public goods are also investigated.

P: ECON 104

R: ECON 202, ECON 203

ECON207-20SU2 (D)**Summer (Nov 20)****ECON207-21S1 (C)****Semester 1****ECON 208 Intermediate Microeconomics - Firms and Markets**

15 Points

0.1250 EFTS

ECON208 is one of two intermediate microeconomics courses which build on the concepts learned in ECON104. The initial topic is analysing the decision making of perfectly competitive businesses. Specifically, how production processes and the price of inputs influence the output decisions of businesses. All other topics look at what happens when perfect competition fails to hold. The focus is on people and businesses acting strategically and what happens when businesses exploit market power.

P: ECON 104

R: ECON 202, ECON 203

ECON208-21S2 (C)**Semester 2****ECON 213 Introduction to Econometrics**

15 Points

0.1250 EFTS

This course teaches basic skills in econometrics, which is the statistical analysis of economic data. You will learn how to (i) develop a regression model, (ii) estimate it, and (iii) interpret it.

General topics that we will cover include OLS regression, prediction, dummy variables, model specification, model selection, robust standard errors, time series forecasting, endogeneity, and qualitative choice models (logit and probit). Two thirds of the course utilizes the statistical software package Eviews and emphasizes application. The remainder teaches the mathematics behind the estimation procedures.

P: (i) ECON 104 or ECON 105; and (2) 15 points from STAT.

R: ECON 214

RP: MATH 101 or Year 13 Math with Calculus.

ECON213-21S1 (C)**Semester 1****ECON 214 Data Analytics for Business Economics**

15 Points

0.1250 EFTS

This course teaches basic skills in econometrics, which is the statistical analysis of economic data. You will learn how to (i) develop a regression model, (ii) estimate it, and (iii) interpret it. General topics that we will cover include OLS regression, prediction, dummy variables, model specification, model selection, robust standard errors, time series forecasting, endogeneity, and qualitative choice models (logit and probit). Two thirds of the course utilizes the statistical software package Eviews and emphasizes application. The remainder teaches EXCEL skills.

P: (i) ECON 104 or ECON 105; and (2) 15 points from STAT

R: ECON 213

ECON214-21S1 (C)**Semester 1****ECON 222 International Trade**

15 Points

0.1250 EFTS

Microeconomic analysis of international trade, trade policy, the welfare implications of trade and trade policy. The political economy of trade liberalisation.

P: ECON 104

ECON222-21S2 (C)**Semester 2****ECON 223 Introduction to Game Theory for Business, Science and Politics**

15 Points

0.1250 EFTS

ECON223 is an introduction to game theory. Game theory itself is the science that studies strategic interaction, the interplay of competition and cooperation between rational, intelligent people. This course is introductory and non-mathematical, emphasizing a small number of key strategic ideas and principles that you will learn through hands-on, interactive playing and analyzing simple stylized examples. The course is multidisciplinary, with examples drawn from social behavior in economics, business, politics, management, history, sociology, psychology, and biology. Completion of first year university in any field is the only prerequisite.

P: Any 60 points

ECON223-20SU2 (C)**Summer (Nov 20)****ECON 225 Environmental Economics**

15 Points

0.1250 EFTS

Economic theory and tools will be applied to the study of the environment and policy. In particular this course will examine how economists look for least cost ways of achieving environmental objectives even if those objectives are not set according to cost benefit analysis. This course will examine how market, incentive based regulatory mechanisms affect environmental outcomes and how the economy and the environment interact.

P: ECON 104

ECON225-21S1 (C)**Semester 1****ECON 310 Economic Thinking for Business**

15 Points

0.1250 EFTS

In this course students will learn the main differences between local businesses, exporters/importers and multinational firms. The course starts with an overview of important facts and issues, and of recent trends in local and international businesses. We will discuss some formal definitions of the salient concepts and various factors (incentives) that may lead some local businesses to expand across borders. Students will be able to practice being an economist by working on projects where they apply economic thinking and methods to problems facing local/international businesses and organisations. Each project involves research on a case in a small group, writing a consulting report and presenting the findings. ECON310 is a compulsory course for the Business Economics major although any student with the pre-requisites can enrol. This course requires active face-to-face participation and attendance in workshops is mandatory. Students who are not present in the first class without prior approval may not be able to complete the first project.

P: (i) ECON 207; and (2) ECON 208; and (3) ECON 213 or ECON 214

ECON310-21S2 (C)**Semester 2****ECON 314 Economic Analysis of "Big Data"**

15 Points

0.1250 EFTS

With the decrease of the cost of storing data, both the size and the variety of available data has increased dramatically. In this course, we will discuss how such 'big data', and the 'artificial intelligence' that may result from it, is affecting both the economy itself and how the economy can be analysed. We will analyse the impact of big data and artificial intelligence on the economy through various examples of how businesses and governments can benefit from big data and artificial intelligence, but also of how big data and artificial intelligence can be abused by them. We also discuss how big data and artificial intelligence has created new ways to analyse the economy, by providing new ways to collect data (for example, web scraping) and by creating new types of data (for example, Google Trend/Correlate data, Text data and Image data) that can

be used to analyse the economy.

P: (1) ECON 105 ; and (2) ECON 213 or ECON 214

ECON314-21S2 (C) Semester 2

ECON 321 Microeconomic Analysis

15 Points 0.1250 EFTS

This course follows on from the Intermediate Microeconomics sequence taught at stage 2. The primary focus is on applying fundamental mathematical tools and techniques for modelling standard microeconomics problems involving consumers, producers and markets. Techniques in both algebra and calculus will be used. The main objective is to show students how a selection of standard microeconomics problems can be modelled in terms of constrained optimisation, solving those problems, and above all, analysing the solutions.

P: (1) ECON 207; and (2) MATH 102 or MATH 199; and (3) 15 points from STAT

RP: ECON 208

ECON321-21S1 (C) Semester 1

ECON 323 Time Series Methods

15 Points 0.1250 EFTS

Analysis of sequentially collected data including data modelling and forecasting techniques.

P: (1) ECON 213; and (2) ECON 207 or FINC 205; and (3) MATH 102

R: FINC 323, STAT 317

EQ: FINC 323, STAT 317

ECON323-21S2 (C) Semester 2

ECON 324 Econometrics

15 Points 0.1250 EFTS

This course teaches advanced skills in practical econometrics. Coverage will include the following topics: OLS, FGLS, robust standard errors, panel data, Stata programming, Monte Carlo experiments, time series, nonstationarity, and error correction models. While the course will present some theory, the emphasis in this class is on doing. A distinctive feature is that we will illustrate key concepts using computer simulations so that students can "see" the practical consequences of the issues they are studying.

P: (1) ECON 213 or STAT 202; and (2) MATH 102 or MATH 199

ECON324-21S1 (C) Semester 1

ECON 326 Macro and Monetary Economics

15 Points 0.1250 EFTS

Derivation of the demand for money. Monetary policy under uncertainty. Analysis of alternative monetary rules. Taylor rules. Term structure of interest rates. Financial crises. Economic Growth.

P: (1) ECON 206; (2) MATH 102 or MATH 199.

RP: ECON 207

ECON326-21S2 (C) Semester 2

ECON 329 Industrial Organisation

15 Points 0.1250 EFTS

Imperfectly competitive markets and behaviour of firms. Monopoly models: standard, dominant firm, durable good, natural monopoly, perfectly contestable markets, price discrimination. Oligopoly models: Cournot, Bertrand, product differentiation. Measuring market power, competition policy.

P: ECON 207 or ECON 208

RP: ECON 208

ECON329-21S1 (C) Semester 1

ECON 331 Financial Economics

15 Points 0.1250 EFTS

The economics of finance with applications to asset valuation, corporate finance, and portfolio management.

P: (1) ECON 207; and (2) FINC 201; and (3) MATH 102 or MATH 199;

R: FINC 331

RP: FINC 205 or MATH 103

EQ: FINC 331

ECON331-21S2 (C) Semester 2

ECON 335 Public Economics 1

15 Points 0.1250 EFTS

Economic theories for the role of government in a market economy and the role of economics in the formulation and evaluation of public policy.

P: ECON 207

RP: ECON 208

ECON335-21S1 (C) Semester 1

ECON 338 Health Economics Overview

15 Points 0.1250 EFTS

An application of microeconomic and empirical tools to the study of health and medical care. The topics covered will include market failures arising from asymmetric information,

the demand for and production of health, provision of health insurance, and government involvement in the medical care system.

P: ECON 207

RP: ECON 208

ECON338-21S1 (C) Semester 1

ECON 339 The Economics of European Integration

15 Points 0.1250 EFTS

Since the Treaty of Rome in 1957, the European Union (EU) has grown from a small customs union with six member states to become the largest integrated market in the world, with 28 members, more than 500 million citizens and a combined gross domestic product larger than that of the United States. This course provides an economic analysis of the processes and policies which have driven Europe's economic and political integration, exploring the implications of a single market in which goods and services, labour and capital can move freely.

P: Any 30 points at 200 level in EURA or ECON, or any 60 points at 200 level from the Schedule V of the BA

R: EURO 339, EURA 339

EQ: EURA 339

ECON339-21SU1 (D) Summer (Jan 21)

ECON339-21SU1 (C) Summer (Jan 21)

ECON 340 Development Economics

15 Points 0.1250 EFTS

Economics 340 will examine some of the major economic issues faced by individuals and governments in poorer countries, and introduce students to the field of development economics. The course will study the concepts and measurement of development, poverty and growth, and how economists use theory, empirical analysis and experiments to address issues in these areas. Topics surveyed will include poverty and inequality, population growth, urbanization and migration, agriculture and rural development, investments in education and health and the role of women, governance and institutions, credit and insurance, foreign investment and aid, and international trade policy. In the process, students will be exposed to the ongoing debates in development economics.

P: ECON 207 or ECON 208

RP: ECON 208

ECON340-21S2 (C) Semester 2

ECON 344 International Finance

15 Points 0.1250 EFTS

This course provides an understanding of the fundamental concepts and issues in international finance. It develops a "tool-kit" of common approaches and applies it to many real-world examples in international finance. We cover topics such as the foreign exchange markets and exchange rate systems, balance of payments, international arbitrage and interest rate parity, exchange rate determination and forecasting, measuring and managing exchange rate risk, international debt and equity financing, currency derivatives, interest rate and currency swaps, and financial crises.

P: ECON 206 or FINC 201 or FINC 203

R: ECON 210 and FINC 315 and FINC 344

RP: 15 points in MATH or Year 13 Math with Calculus

EQ: FINC 344

ECON344-21S2 (C) Semester 2

ECON 390 Internship or Consultancy Project

15 Points 0.1250 EFTS

An internship or consultancy project is an opportunity to experience a professional work environment. Internships or projects taken for credit are usually unpaid. You are expected to develop a good understanding of a sector, market or organisation. The work you submit will show an application of the tools, ideas or concepts of economics. You will be required to reflect critically on the requirements of transitioning from an academic to a work environment and the skills valued in a professional workplace. As these are economics placements, priority is given to economics majors.

P: (1) ECON 207 or ECON 208; and (2) Subject to the Head of Department approval

R: FINC 390, ARTS 395, PACE 395

ECON390-21S1 (C) Semester 1

ECON390-21S2 (C) Semester 2

PACE 395 Internship

30 Points 0.2500 EFTS

What can you do with your major? With your degree? The purpose of the internship course is to explore both the ideological and practical assumptions guiding this question. The course is designed to be a critical, theoretical and "real-world" examination of the practices and ideologies inherent in both community and business organisations. You will apply the analytical skills acquired through your major, and through class seminars and readings, to a project designed by a local company or community group. Please check out the website for further information and specific project descriptions: www.arts.canterbury.ac.nz/internships

P: 150 points, special application and interview, and permission of the Internship Director.

R: ARTS 395

EQ: ARTS 395

PACE395-20SU2 (C) Summer (Nov 20)

PACE395-21A (C) Starts Anytime

PACE395-21S1 (C) Semester 1

PACE395-21S2 (C) Semester 2

Limited entry. See limitation of entry regulations. A student will be selected for a specific project. Only students accepted for projects will be allowed into the course. Please go to <http://www.arts.canterbury.ac.nz/internships> for more information.

Tāura | Postgraduate

Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.

ECON 610 Directed Readings in Economics 1

15 Points 0.1250 EFTS

P: Subject to approval of the Head of Department

ECON610-21S1 (C) Semester 1

ECON610-21S2 (C) Semester 2

ECON 613 Directed Readings in Economics II

15 Points 0.1250 EFTS

P: Subject to approval of the Head of Department

ECON613-21S1 (C) Semester 1

ECON613-21S2 (C) Semester 2

ECON 614 Time Series and Stochastic Processes

15 Points 0.1250 EFTS

Analysis of sequentially collected data including data modelling and forecasting techniques.

P: Subject to approval of the Head of Department

R: STAT 456

EQ: STAT 456

ECON614-21S2 (C) Semester 2

ECON 615 Econometrics II-600

15 Points 0.1250 EFTS

This course teaches advanced skills in practical econometrics. Coverage will include the following topics: OLS, FGLS, robust standard errors, panel data, Stata programming, Monte Carlo experiments, time series, nonstationarity, and error correction models. While the course will present some theory, the emphasis in this class is on doing. A distinctive feature is that we will illustrate key concepts using computer simulations so that students can "see" the practical consequences of the issues they are studying. Students will develop their own Monte Carlo experiments to investigate econometric questions.

P: Subject to approval of the Head of Department.

ECON615-21S1 (C) Semester 1

ECON 616 Microeconomic Analysis

15 Points 0.1250 EFTS

Application of fundamental mathematical techniques for modelling standard economic problems.

P: Subject to approval of Head of Department

R: ECON 321

EQ: ECON 321

ECON616-21S1 (C) Semester 1

ECON 617 Macro and Monetary Economics

15 Points 0.1250 EFTS

Monetary economics, financial crises, economic growth.

P: Subject to approval of Head of Department

R: ECON 326

EQ: ECON 326

ECON617-21S2 (C) Semester 2

ECON 618 Financial Economics

15 Points 0.1250 EFTS

The economics of finance with applications to asset valuation, corporate finance, and portfolio management. ECON 618 students will be expected to apply advanced theories to these concepts.

P: Subject to approval of Head of Department

R: ECON 331

EQ: ECON 331

ECON618-21S2 (C) Semester 2

ECON 631 Advanced Econometrics

15 Points 0.1250 EFTS

In econometrics, one often gives a causal interpretation to estimated coefficients. Unfortunately, in most cases such causal interpretation is not warranted. In this course, we will focus on the difference between causality and correlation and study analytical approaches that aim for causal estimates. Techniques covered include randomized controlled trials / experiments, matching estimators, regression discontinuity design, difference-in-difference estimators, instrumental

variable estimators, event studies, and synthetic control estimators. The course will cover both theory and applications using R.

P: Subject to approval of the Head of Department.

R: ECON 601

ECON631-21S2 (C) Semester 2

ECON 641 Monetary Economics: Theory

15 Points 0.1250 EFTS

This course surveys a number of important topics in monetary and financial theory. A few topics such as the implementation of monetary policy in New Zealand and the theory of the banking firm draw heavily on microeconomics. The lectures cover topics ranging from asymmetric information in credit markets to the term structure of interest rates. The topical nature of the course is brought out by a discussion of macroprudential and microprudential regulation, the behavior of banks in a low-interest rate environment, and the changing nature of financing decisions by firms since the Global Financial crisis.

P: Entry to any honours level course is subject to the approval of the Head of Department.

R: FINC 641

EQ: FINC 641

ECON641-21S2 (C) Semester 2

ECON 642 Monetary Economics: Policy

15 Points 0.1250 EFTS

The focus of this course is on the conduct of optimal monetary policy in open and closed economies. Various issues in monetary policy under uncertainty are explored. A great deal of attention is devoted to issues pertaining to rules vs. discretion in policy-making. We address topics as diverse as interest rate pegs, nominal income targeting vs. price level/ inflation targeting, collection of seigniorage, central bank independence, and others.

P: Subject to approval of the Head of Department

ECON642-21S1 (C) Semester 1

ECON 643 Advanced International Finance

15 Points 0.1250 EFTS

This course introduces students to selected relevant topics in international finance. It will familiarise students with the analytical techniques needed to understand different theoretical issues and evaluate the empirical performance of the models. The main topics covered in this course are exchange rate movements, current account determination, foreign exchange intervention and volatility, sovereign debt and crisis, financial development, financial liberalisation and international capital flows, currency crisis, banking system stability and systemic risk, and the role of international institutions like the IMF.

P: Subject to approval of the Head of Department.

R: FINC 643

RP: ECON 344 or FINC 344

EQ: FINC 643

ECON643-21S1 (C) Semester 1

ECON 644 Microeconomics I

15 Points 0.1250 EFTS

A course in advanced microeconomic theory, covering the topics of consumer theory and decision making, production decisions, market and price theory analysis, and simple general equilibrium models. The emphasis is on using mathematical techniques to analyse microeconomic problems.

P: Subject to approval of the Head of Department

ECON644-21S2 (C) Semester 2

ECON 668 Experimental Economics

15 Points 0.1250 EFTS

This course will provide students with an in-depth treatment of this increasingly popular method for testing and stimulating economic theory. The course aims to equip students in three main areas: to become familiar with experimental methods; learn some major areas of applications; and critically evaluate the potential and limitations of laboratory experimental research.

P: Subject to approval of the Head of Department.

ECON668-21S2 (C) Semester 2

ECON 670 Special Topic

15 Points 0.1250 EFTS

P: Subject to Approval by the Head of Department.

ECON670-21S2 (C) Semester 2

ECON 679 Internship or Consultancy Project

15 Points 0.1250 EFTS

An internship or consultancy project is an opportunity to experience a professional work environment. You are expected to develop a good understanding of a sector, market or organisation. The work you submit will show an application of the tools, ideas or concepts of economics. You will be required to reflect critically on the requirements of transitioning from an academic to a work environment and the skills valued in a professional workplace. You will also need to provide a critical analysis of the work undertaken.

P: Subject to Head of Department approval
R: FINC 679

ECON679-20SU2 (C) Summer (Nov 20)
ECON679-21S1 (C) Semester 1
ECON679-21S2 (C) Semester 2

ECON 680 Research Exercise

30 Points 0.2500 EFTS

P: Subject to approval of the Head of Department

ECON680-21W (C) Whole Year (S1 and S2)

ECON 690 MA Thesis

120 Points 1.0000 EFTS

P: Subject to approval of the Head of Department.

ECON690-21A (C) Starts Anytime

Part-time enrolment (0.65 EFTS) is available on approval.

ECON 691 MCom Dissertation

60 Points 0.5000 EFTS

P: Subject to approval of the Head of Department. Admission may be subject to meeting a sufficient standard in previous coursework.

R: ECON 680

ECON691-21A (C) Starts Anytime

ECON 692 MA Dissertation

60 Points 0.5000 EFTS

MA Dissertation

P: Subject to approval of the Head of Department.

ECON692-21A (C) Starts Anytime

ECON692-21S1 (C) Semester 1

ECON692-21S2 (C) Semester 2

ECON 694 MCom Thesis

90 Points 0.7500 EFTS

MCom Thesis

P: Subject to approval of the Head of Department.

ECON694-21A (C) Starts Anytime

ECON 695 MCom Thesis

120 Points 1.0000 EFTS

P: Subject to approval of the Head of Department.

ECON695-21A (C) Starts Anytime

ECON 699 MSc Thesis

120 Points 1.0000 EFTS

P: Subject to approval of the Head of Department.

ECON699-21A (C) Starts Anytime

ECON 790 Economics PhD

120 Points 1.0000 EFTS

P: Subject to approval of the Head of Department.

ECON790-21A (C) Starts Anytime

Part-time enrolment (0.65 EFTS) is available on approval. *From 1 January 2008, international students who are residing in New Zealand on a NZ Immigration Study Visa pay the Domestic Fee for this course. International fees apply for all other courses.

Education

School of Educational Studies and Leadership

Note: Timetable information for courses offered by the College of Education will be available at www.canterbury.ac.nz/courses from 6 October 2009. Information for initial teacher education and sport coaching programmes will be available at www.education.canterbury.ac.nz/coursegroups/.

CHCH 101 Strengthening Communities through Social Innovation

15 Points 0.1250 EFTS

CHCH101 offers anyone interested in active citizenship, community engagement, and social innovation with the opportunity to combine academic content with volunteering and critical reflection. Through this innovative design and delivery, this course serves as a cornerstone

experience for further study in these topics across a wide range of disciplines.

CHCH101-21S1 (C) Semester 1

CHCH101-21S1 (D) Semester 1

COUN 671 Counselling and Psychology: Theories and Skills

30 Points 0.2500 EFTS

Studies of counselling and psychological theories and their implications for practice. Practice in the skills of an intentional interviewing model of helping.

R: CFPY 604, EDUC 461, EDEM 664, HLTH 481

COUN671-21W (C) Whole Year (S1 and S2)

COUN 672 Counselling Supervision and Reflective Practice

15 Points 0.1250 EFTS

In this course students are introduced to a solution-focused model of supervision and reflective practice. They also explore the importance and implications of cultural supervision for safe counselling practice. The course requires students to engage in group supervision and reflective practice.

C: COUN 675

R: EDEM 671, EDEM 672

COUN672-21W (D) Whole Year (S1 and S2)

COUN 674 Professional Counselling Practice II (Part B) (PT)

15 Points 0.1250 EFTS

This course aims to provide the context in which students can demonstrate their counselling practice at a professional level.

P: COUN 673 Professional Counselling Practice II (Part A) (PT)

R: EDEM 673, EDEM 674/EDEM 675, COUN 676

COUN674-21W (D) Whole Year (S1 and S2)

COUN 675 Professional Counselling Practice I

30 Points 0.2500 EFTS

This course aims to enable students to develop and practise effective and purposeful collaborative interventions with clients.

P: Subject to approval of the Head of School of Health Sciences

R: EDEM 672

COUN675-21W (D) Whole Year (S1 and S2)

COUN 697 Counselling Thesis

90 Points 0.7500 EFTS

P: Subject to approval of the Head of School of Health Sciences

COUN697-21A (D) Starts Anytime

COUN 698 Professional Counselling Research Portfolio

90 Points 0.7500 EFTS

P: 1) COUN 675 and one of EDEM 693 or EDEM 697 or EDEM 698 or an approved Research Methods course. 2) Subject to approval of the Head of School

COUN698-21A (D) Starts Anytime

EDEM 606 Curriculum Implementation in Science Education

30 Points 0.2500 EFTS

The course is designed to give teachers the opportunity to improve their professional practice by critically examining significant issues regarding course design and implementation in science contexts. Participants will develop research skills and investigate theories and practices in science education.

P: Subject to approval of the Head of School

EDEM606-21S2 (C) Semester 2

EDEM606-21S2 (D) Semester 2

EDEM 607 Contemporary Issues in Literacy Education

30 Points 0.2500 EFTS

This course explores different theoretical perspectives on literacy and how they relate to contemporary practice and research. It examines the theoretical, historical and political aspects of curriculum development in the teaching of literacy. It includes an exploration of current teaching and learning practices and processes relevant to the area. An analysis and critique of the development and use of and approaches to text is integral to the course.

P: Subject to approval of the Head of School

R: EDTL 834

EDEM607-21W (D) Whole Year (S1 and S2)

EDEM 608 Understanding Emotions in Education, Leadership and Health

30 Points 0.2500 EFTS

This course is designed to specifically address current interest in emotions and emotional intelligence in teaching, learning and leadership. Current research findings and interdisciplinary theories of emotion will be explored, discussed, critiqued and applied as relevant to the overall bicultural context of Aotearoa New Zealand, and situated within the individual contexts of the participants. Participants will engage with and adapt a research-informed theory of emotional intelligence that has been applied in international research, in ways that are relevant to their daily lives, and/or support their pedagogical or relevant professional practice. This course will be of interest not only to teachers, educators, and leaders, but also to managers, coaches, human resource professionals, psychologists, parents, students and anyone who is interested in understanding emotions in themselves and others.

P: Subject to approval of the Head of School.

EDEM608-20SU2 (C) Summer (Nov 20)**EDEM608-20SU2 (D)** Summer (Nov 20)**EDEM 614 Assessment of Learning**

30 Points 0.2500 EFTS

This course seeks to promote the understanding and use of assessment for improving learning. Recognising the diversity of learners and education sectors, topics covered will include discussion of socio-cultural theories of assessment; narrative assessment approaches; national exemplars in special education, early childhood, primary and secondary settings and national assessment tools. There will be an opportunity for class members to pursue an assessment topic of their own interest.

P: Subject to approval of the Head of School

EDEM614-21S2 (D) Semester 2**EDEM 615 Learning and Teaching Languages**

30 Points 0.2500 EFTS

Participants will gain a comprehensive overview of current thinking about instructed language learning and the ability to judiciously plan for and deliver research-informed language courses for a variety of settings and learners.

P: Subject to approval of the Head of School

R: EDEM 681 (note this is between 2014-2015 only)

EDEM615-20SU2 (C) Summer (Nov 20)**EDEM615-20SU2 (D)** Summer (Nov 20)**EDEM 617 Enhancing Reading Development in Young Children at Risk**

30 Points 0.2500 EFTS

This course will focus on teaching students methods to enhance reading development in young children at risk of literacy difficulty. A major element of the course will examine the provision of effective phonological awareness intervention in individual, small-group and classroom settings. Practical sessions will be used to demonstrate the effective teaching strategies covered in the course content. This course would be suitable for teachers, early childhood educators, literacy specialists and speech-language therapists looking to promote early literacy success for all children.

P: Subject to approval of the Head of School

EDEM617-21S1 (D) Semester 1**EDEM 618 Dyslexia: Identification and Intervention**

30 Points 0.2500 EFTS

The aim of this course is to provide the students with an understanding of dyslexia as it relates to educational practice. Identifying procedures will be covered, which will provide the student with an understanding of the main characteristics associated with dyslexia. This will also cover theories of causes of dyslexia and literacy problems, as well as ways of differentiating dyslexia from other learning difficulties. This background will be used to cover some of the methods that have been used to overcome some of the learning problems related to dyslexia.

P: Subject to approval of the Head of School

EDEM618-21S2 (C) Semester 2**EDEM618-21S2 (D)** Semester 2**EDEM 620 Inclusive and Special Education**

30 Points 0.2500 EFTS

This course provides students with advanced knowledge and understanding of inclusive and special education history, philosophy, policy and practice. The course will examine the historical development of inclusive and special education at global, regional and local levels. Philosophies and theories underpinning inclusive and special education policies and practices will be investigated. Students will research and critically evaluate aspects pertaining to current and past practices, theories and debates in the field.

P: Subject to approval of the Head of School

EDEM620-21S1 (D) Semester 1**EDEM620-21S1 (C)** Semester 1**EDEM 622 Teaching and Learning in Inclusive Settings**

30 Points 0.2500 EFTS

This course examines the theoretical and practical aspects of teaching and learning in inclusive settings. Students will examine and critique current teaching and learning theory and practices as they pertain to inclusive and special education. Students will gain knowledge of and skills in a range of inclusive teaching and learning practices and processes within a framework of Universal Design for Learning.

P: Subject to approval of the Head of School

EDEM622-21S2 (D) Semester 2**EDEM622-21S2 (C)** Semester 2**EDEM 624 Autism Spectrum Disorders**

30 Points 0.2500 EFTS

The aim of this course is to examine Autism Spectrum Disorders (ASD) with a particular emphasis on educational issues and implications. The course includes an exploration of the features and characteristics of ASD and a critical review of principles, practices, issues and research related to successful educational inclusion for children and young people with ASD.

P: Subject to approval of the Head of School

R: EDSN 766, EDTL 866

EDEM624-21S1 (D) Semester 1**EDEM 626 Implementing Computational Thinking in the Curriculum**

30 Points 0.2500 EFTS

The Technological area of Computational Thinking was introduced to the New Zealand Curriculum and Te Marautanga o Aotearoa for primary and secondary schools and kura in 2018. This course is designed to equip participants to teach relevant Computational Thinking topics to students in schools and kura, from primary school to NCEA. Each of the main topics will be critically examined in terms of pedagogical and subject knowledge while at the same time developing teachers' understanding of theoretical perspectives of Computational Thinking. Participants will develop through investigating theories and practices in Digital Technologies education and industry. A key component is an individual research project to develop, implement and critically evaluate a resource to develop students' computational thinking. The course does not cover teaching of computer programming or learning to program a computer.

P: Subject to approval of the Head of School.

EDEM626-21W (D) Whole Year (S1 and S2)**EDEM 628 Evaluating effective practices with educational technology**

30 Points 0.2500 EFTS

This course will engage students in authentic learning experiences as they explore an educational challenge in their own context. Students help guide the course focus, through identification and presentation of relevant issues in their own education or training contexts before carrying out an independent project to enhance both their professional practice and the theoretical understandings of educational technology. Drawing on design-based research the course develops a community of practice as students investigate and share effective blended learning practices through collaborative learning and critical reflection. Given the authentic learning focus, the course is suitable for educators in all phases of education and training, including early childhood, schools and industry training and community organisations.

P: Subject to approval of the Head of School

R: EDTL 894

EDEM628-21S1 (D) Semester 1**EDEM 630 Change with Digital Technologies in Education and Training**

30 Points 0.2500 EFTS

As societies shift towards the age of digitalisation, digital education leadership is becoming a growing concern for students, educators and policy makers. This course is designed to study the role of 'change agents' in digital education, including teachers and trainers as change agents. Students will explore current issues that are affecting the digital world and reflect on their influence on education and training. Through exploring models of leadership and change, and critical reflection on their own experiences, the course aims to help each student develop as a digital education leader. Students will lead online seminars, conduct field observation and engage in project work to prompt and understand change within their own contexts in an evolving, digitally mediated society.

P: Subject to the approval of Head of School

EDEM630-21S2 (D) Semester 2**EDEM 631 Foundations of Language Acquisition and Learning**

30 Points 0.2500 EFTS

This course extends the professional knowledge-base of educational professionals through the examination of the main theories of first and second language acquisition, examining the linguistic, psychological and social processes that underlie language(s) learning and use.

P: Subject to approval by the Head of School.

EDEM631-21S1 (C) Semester 1**EDEM631-21S1 (D)** Semester 1**EDEM 633 Foundations of Technology-Enhanced Language Learning**

30 Points 0.2500 EFTS

Participants will gain a comprehensive overview of the field of technology-enhanced language learning and develop an ability to select, evaluate and create digital tools for language learning in a variety of learning contexts. This compulsory course presents the history and development of technology-enhanced language learning, and students learn about the affordances and constraints of a wide variety of digital tools, and materials, and how they can be used in a pedagogically appropriate way to enhance language learning as well as creating materials for technology-enhanced language learning in a particular context.

P: Subject to approval of the Head of School

EDEM633-21S2 (C) Semester 2**EDEM633-21S2 (D)** Semester 2

EDEM 637 Distributing Leadership Through Coaching and Mentoring

30 Points 0.2500 EFTS

This course explores and applies the theoretical and practical bases of supporting others in developing their professional roles, responsibilities and expertise. It is suitable for those who have coaching and mentoring roles with new and existing members of staff and recognise the need to complement specialist knowledge with professional learning and development strategies.

P: Subject to approval of the Head of School

R: EDTL 821

EDEM637-21S1 (D) Semester 1**EDEM 638 Teachers as Leaders**

30 Points 0.2500 EFTS

This course is designed to encourage new and aspiring teacher leaders (within named roles or without) to explore and develop strategies for leading curriculum change. The course will involve critical reflection on teacher leadership models that create and sustain effective curriculum practices. The course will be presented in two sections: Leadership by teachers; and theories and approaches to leadership of change. The research component requires an analysis of a professional learning conversation to establish the current coaching and mentoring skillset.

P: Subject to approval of the Head of School

R: EDTL 841

EDEM638-21S2 (D) Semester 2**EDEM 641 Educational Leadership and the Law in New Zealand**

30 Points 0.2500 EFTS

This course examines the intersection between education and the law in New Zealand. It combines legal theory with practical legal challenges that education professionals may encounter. The course assumes no prior legal training, addresses contemporary challenges and covers areas such as statutory interpretation, judicial review, employment law and privacy law, as well as issues relating to school discipline and child protection. There is scope for students to research in an area of education law that is of interest to them.

P: Subject to the approval of the Head of School

EDEM641-21S2 (D) Semester 2**EDEM 649 Te Tiriti o Waitangi i te Ao Mātauranga**

30 Points 0.2500 EFTS

This course is taught in Te Reo Māori. It will enable teachers and educators to gain a sound knowledge of the Treaty of Waitangi, its role in the history of New Zealand and its implications for theory and practice in learning communities today. In the course students will select a nominated area of study which will enable them to align Māori and bicultural principles to current policies and practices. Students will critically analyse the context of their practice and prepare a strategic plan which meets the needs of Māori and non-Māori in relation to the treaty partnership in their educational settings.

P: Subject to approval of the Head of School

R: EDTL 826

EDEM649-21S2 (C) Semester 2**EDEM 650 Educational Philosophy and Policy**

30 Points 0.2500 EFTS

This course will be of interest to anyone who has pondered the nature and purpose of education and considered its significance in building better worlds. With a central theme of 'utopia and education', the course encourages students to address questions such as these: What is education for and why does it really matter? How can education contribute to a more meaningful and worthwhile life? What should we seek to know and why? What social ideals should we seek to uphold, and what are some of the impediments to the pursuit of these ideals? The course will draw on literary works and the visual arts as well as more traditional educational and philosophical sources. Students will have the opportunity to apply insights from the course to policy contexts, and to explore the implications of educational theory for professional practice and everyday life.

P: Subject to the approval of Head of School

R: EDUC 414

EDEM650-21S2 (C) Semester 2**EDEM650-21S2 (D)** Semester 2**EDEM 653 Special Topic: Meeting the needs of students with literacy learning difficulties**

30 Points 0.2500 EFTS

This course provides advanced study into the variety of literacy learning difficulties that learners may present with from school entry through to adulthood. It examines the theory and research that informs how these difficulties are understood in the current educational context with a focus on identifying and supporting students with literacy learning difficulties.

P: Subject to approval of the Head of School

EDEM653-21W (D) Whole Year (S1 and S2)**EDEM 656 Tikanga and Rautaki Whakaako Reo**

30 Points 0.2500 EFTS

This course will explore, develop and critically assess communicative teaching and learning methodologies and strategies for a range of learners and learning styles in Māori bilingual and immersion settings. Students will explore and critique international models and practices in first and second language teaching and assessment. Students will design effective language

programmes and assessments practices appropriate to age group and language experiences of learners, inclusive of Māori values and cultural practices. Note: This course will be taught through the medium of te reo Māori.

P: Subject to approval of the Head of School

R: EDHP 701

EDEM656-21X (C) 26 Apr 2021 - 18 July 2021**EDEM 657 Whakaora Reo-Language Revitalisation**

30 Points 0.2500 EFTS

Students will critically examine the historical repression of the Māori language/indigenous languages and the growth of language revitalisation movements in the twentieth century. They will review the key educational and Māori development drivers in Māori/iwi led movements: Kohanga Reo, Kura Kaupapa Māori, Wharekura, wananga and bilingual/immersion programmes. They will assess the role that teachers can play in creating and shaping communities of language learners and develop appropriate strategic plans. Note: This course will be taught through the medium of Māori.

P: Subject to approval of the Head of School

R: EDHP 702, MAOR 427, TREO 405

EQ: TREO 405

EDEM657-21S2 (C) Semester 2**EDEM 658 Mātauranga Māori Hei Marautanga**

30 Points 0.2500 EFTS

This course is taught through te reo Māori. It will critically examine Mātauranga Māori: Māori ways of knowing and engaging with their environment in traditional and contemporary contexts as a means of developing a Kaupapa Māori based curriculum. Māori knowledge systems are valued and central to curriculum development. Students will also compare and contrast other indigenous epistemologies as frameworks for curriculum development in educational settings. There will be a strong emphasis on Te Wai Pounamu contexts and content and students will work in partnership with selected Māori and marae communities to investigate, report and apply Mātauranga Māori in the development of curriculum materials and teaching resources.

P: Subject to approval of the Head of School

R: EDHP 705

EDEM658-21X (C) 01 Feb 2021 - 04 Apr 2021**EDEM 659 Advancing Pasifika Educational Success**

30 Points 0.2500 EFTS

This course examines advances in Pasifika Education in Aotearoa/New Zealand. Students will engage with a range of relevant research to critique and analyse Pasifika educational pedagogy, practices and policy formation. The course will include the perspectives of Pasifika learners, parents, teachers, communities and academics.

P: Subject to the approval of the Head of School

EDEM659-21X (C) 15 Feb 2021 - 06 June 2021**EDEM659-21X (D)** 15 Feb 2021 - 06 June 2021**EDEM 660 Te Ngao ki Hawaiki**

30 Points 0.2500 EFTS

Ma te reo Māori nga mahi a te karaehe nei e kawae ai i nga kaupapa ako ka wanangahia nei e tatou. Ko te whainga matua ko te ako i te reo korero, te reo tuhituhi, ka tahi, ka rua ko te ata whakaaro he aha ke te wairua o te reo Māori me pupuri tonutia nei. Ka tiro tatou ki nga korero tuku iho penei i te whakatauki, kiwaha me era momo o te reo. Ko tona whainga matua kia ata whawha i te hohonutanga o te whakaaro me ona tohutohu mo te ao e noho nei tatou. Ka tiro ano hoki tatou ki nga kaupapa tikanga, nga whakapono a te Māori, nga mihi me nga poroporoaki, era ahuatanga katoa o te reo Māori.

P: Subject the approval of the Head of School

R: TREO 401

EDEM660-21S1 (C) Semester 1**EDEM 669 Leading and Managing Decision-Making in Organisations**

30 Points 0.2500 EFTS

Participants will engage with current thinking and practice around decision-making in organisations and will develop skill in identifying, critically evaluating and using diverse decision-making models. This course is designed for those who hold, or aspire to, positional leadership. Drawing on theories of organisational psychology, culture and change management, participants will solve an organisational problem, negotiating the dynamics of planned and unplanned change, and change resistance.

P: Subject to approval from the Head of Department.

EDEM669-21S1 (D) Semester 1**EDEM 670 Leadership as Partnering: Moving Beyond Boundaries**

30 Points 0.2500 EFTS

Participants will explore national and global policy agendas on partnership in order to understand the role of leadership in creating and extending practice beyond organisational boundaries. Opportunities and challenges for, and consequences of, collaborative practices will be examined through policy, research and scholarly lenses and applied to participants' work contexts. The dynamic between networking and learning will be foregrounded to support the potential of multi-agency learning communities.

P: Subject to approval from the Head of Department.

EDEM670-21S2 (D) Semester 2

EDEM 680 Independent Study

30 Points 0.2500 EFTS

An independent course of postgraduate study on approved topics.

P: Subject to approval of the Head of School.

R: EDUC 674

EDEM680-21A (D) Starts Anytime**EDEM680-21A (C) Starts Anytime****EDEM 685 Culturally Inclusive Pedagogies: Motivating Diverse Learners**

30 Points 0.2500 EFTS

This course provides historical and advanced theoretical understandings of motivation and behaviour and their degree of relevance in diverse ecological settings. The course is premised on the belief that the most important issue underlying a culturally inclusive society is a willingness of people to be more aware, knowledgeable, and accepting of difference. The course is designed for students who wish to engage in promoting analyses and rigorous critique of socio-psychological theories and to apply strategies that emanate from those theories. Issues relating to Māori and indigenous ways of knowing and practising will be explored.

P: Subject to approval of the Head of School

EDEM685-21S1 (C) Semester 1**EDEM685-21X (R) 12 July 2021 - 31 Oct 2021****EDEM 690 MEd Thesis**

90 Points 0.7500 EFTS

P: Subject to approval of the Head of School.

R: EDTL 904

EDEM690-21A (C) Starts Anytime**EDEM690-21A (D) Starts Anytime***Part-time enrolment (0.4875 EFTS) is available on approval.***EDEM 691 MEd Thesis**

120 Points 1.0000 EFTS

P: Subject to approval of the Head of School.

R: EDTL 905

EDEM691-21A (C) Starts Anytime**EDEM691-21A (D) Starts Anytime****EDEM 693 Introduction to Methodologies and Ethics in Educational Research**

15 Points 0.1250 EFTS

The course is an introduction to frameworks for thinking about research, ethical considerations required for planning research and the ethical approval process. The course provides students with opportunities to identify appropriate research issues and to formulate research questions. This course supports students' critical reading of research and decisions made in planning research. A range of methodologies and methods of educational research are introduced.

P: Subject to the approval of the Head of School

R: EDUC 459, EDUC 659, EDTL 801

EDEM693-21S1 (C) Semester 1**EDEM693-21S1 (D) Semester 1****EDEM 694 Quantitative Research In Education**

15 Points 0.1250 EFTS

This course provides postgraduate training in educational research methods. The course covers the various research methodologies used in education that involve quantitative data (from experiments to surveys, single-subject designs to group interventions) and provides a background to related statistical analytic procedures. The course will familiarise students with those concepts and assumptions underlying such educational research and provide education-based examples to support understanding. The aims of the course are to bring the student to the point where they have the basic skills/knowledge to interpret most quantitative research papers, as well as the background to undertake thesis-level work that includes quantitative research.

P: Subject to the approval of the Head of School

R: EDTL 801, EDUC 660

EDEM694-21S2 (D) Semester 2**EDEM694-21S2 (C) Semester 2****EDEM 697 Qualitative Research in Education, Health, and Human Development**

15 Points 0.1250 EFTS

This course gives students both theoretical tools and practical experience in the design and implementation of qualitative research. Students will learn how to describe, apply and critique strategies for qualitative data collection and data analysis. Students will identify and discuss ethical issues in qualitative research, including suggestions for researching ethically throughout the process of data collection, analysis and reporting. The course prepares students to write the methodology (and methods) section of a research proposal suitable for a thesis. This course is offered alternate years (odd years).

P: Subject to the approval of the Head of School

R: EDUC 459, EDUC 659, EDTL 801

EDEM697-21S1 (C) Semester 1**EDEM697-21S1 (D) Semester 1****EDMI 311 Whakapiki i te Reo**

15 Points 0.1250 EFTS

Whakapiki i te Reo aims to increase the fluency of the kaiako Te Reo and provide a wider range of conversational ability. Kaiako will be able to demonstrate an understanding of te reo Māori me nga tikanga-a-iwi applicable to a variety of learning contexts, and informal contacts with whānau and community. Assignments will focus on three key skills; speaking, writing and reading.

P: Subject to approval of the Head of School.

R: Te Reo Māori assessment

EDMI311-21T1 (C) 08 Feb 2021 - 02 May 2021*Limited entry. See limitation of entry regulations.***EDMI 312 Mātauraka Māori**

15 Points 0.1250 EFTS

This course is taught bilingually: in te reo Māori and English. It will critically examine Mātauraka Māori: Māori ways of knowing and engaging with the environment in traditional and contemporary contexts as a means of developing a Kaupapa Māori based curriculum. Māori knowledge systems are valued and central to curriculum development. Students will also compare and contrast other indigenous epistemologies as frameworks for curriculum development in educational settings. The emphasis will be on Ngāi Tahu contexts and content.

P: EDMI 311

EDMI312-21T2 (C) 03 May 2021 - 20 June 2021*Limited entry. See limitation of entry regulations.***EDMI 313 Te Marau ā-lwi**

15 Points 0.1250 EFTS

Te Marau ā-lwi is delivered in a bilingual setting under the mana of Ngāi Tahu. It will focus on developing the curriculum knowledge of kaupapa Māori education documents such as Te Marautanga, Te Aho Matua, Te Whariki and others. This course seeks to develop a deeper understanding of kaupapa Māori theories, pedagogies through the use of kaupapa Māori educational frameworks.

P: EDMI 312

EDMI313-21T3 (C) 23 Aug 2021 - 26 Sep 2021*Limited entry. See limitation of entry regulations.***EDMI 314 Te Pātaka Reo o Tahu**

30 Points 0.2500 EFTS

Te Pātaka Reo o Tahu aims to develop a working knowledge of Matauraka Kai Tahu (purakau, mahika kai, noho marae, waiata, place-based pedagogy) and a higher level of proficiency in te reo Māori. (MM website, 2019). This knowledge and development of pedagogical understandings will strengthen the ability of kaiako enrolled in the programme to work successfully in Māori Medium settings or in English Medium settings with a greater knowledge of te ao Māori, Ngāi Tahu, and level of proficiency in te reo Māori.

P: 1) EDMI 311; and 2) EDMI 312 or EDMI 313

EDMI314-21T4 (C) 06 Sep 2021 - 07 Nov 2021*Limited entry. See limitation of entry regulations.***EDMI 315 Kaupapa Māori Pedagogies**

15 Points 0.1250 EFTS

Kaupapa Māori pedagogies will explore indigenous ways of being, doing, thinking and transferring knowledge. This course will aid in understanding traditional Māori pedagogies, purakau and histories in order to appropriately embed aspects of these traditional methods in our contemporary teaching and learning programmes.

P: EDMI 311

EDMI315-21S1 (C) Semester 1*Limited entry. See limitation of entry regulations.***EDMI 316 Whakapiki i te reo 2**

15 Points 0.1250 EFTS

Whakapiki i te reo 2 aims to increase the level of proficiency of kaiako in te reo Māori and will provide a wide range of conversational, contextual and academic language opportunities. Kaiako will be able to demonstrate an advanced understanding of te reo Māori me nga tikanga-a-iwi applicable to a variety of learning contexts, and informal contacts with whānau and community. The aim of the course is to increase the depth of knowledge and skill in spoken Māori language and also communicative teaching of Māori language. Students will have a greater understanding of Mātauranga Māori and tikanga Māori through the teaching and learning of te reo Māori. Knowledge of dialect and Mātauranga of the mana whenua will be threaded into this course. This course continues the study of the structure of the language and extends speaking skills and confidence. This will be taught predominantly in te reo Māori.

P: EDMI 311

EDMI316-21S1 (C) Semester 1*Limited entry. See limitation of entry regulations.***EDMM 632 Issues in Language Acquisition and Learning**

30 Points 0.2500 EFTS

In this course, students will gain a thorough overview of current research in the field of language acquisition and learning, and develop an ability to analyse and critically evaluate findings and discussions in the literature on language acquisition pedagogy that inform the design and

implementation of curricula for migrant students' learning contexts. Students will compare and contrast a range of approaches to teaching additional languages. Students will also investigate, and critically analyse problematic aspects of language acquisition and learning research, and consider their relevance to practices and problems in a particular educational setting.

P: EDEM 631 or equivalent knowledge

R: EDEM 632

EDMM632-21S2 (C) Semester 2

EDMM632-21S2 (D) Semester 2

EDMT 606 Developing a Teacher-Researcher Stance

15 Points 0.1250 EFTS

This synthesising course provides the opportunity for each student to consolidate and evaluate their professional knowledge and skills and situate their pedagogical practice in relation to professional standards and contemporary educational research. Students critically appraise the content and process of their professional learning journey through the programme, including the evidence of adaptive expertise, cultural responsiveness, and action competence as a teacher.

P: 1) EDMT 605 and 2) EDMT 612 or EDMT 622 or EDMT 632

EDMT606-21X (C) 08 Nov 2021 - 05 Dec 2021

EDST 622 Evidence-based Interprofessional Practice in Deaf and Hard of Hearing

30 Points 0.2500 EFTS

An examination of evidence-based professional practices in the area of Deaf and Hard of Hearing, including common professional practices of specialist teachers and other educational and health professionals involved in special and inclusive education.

P: EDST 601 and EDST 621

EDST622-21X (D) 08 Feb 2021 - 07 Nov 2021

EDST 623 Practicum in Deaf and Hard of Hearing

30 Points 0.2500 EFTS

A supervised practicum in the area of Deaf and Hard of Hearing.

P: EDST 601 and EDST 621

C: EDST 622

EDST623-21X (D) 08 Feb 2021 - 07 Nov 2021

EDST 632 Evidence-based Interprofessional Practice in Early Intervention

30 Points 0.2500 EFTS

An examination of evidence-based professional practices in the area of Early Intervention, including common professional practices of specialist teachers and other educational and health professionals involved in special and inclusive education.

P: EDST 601 and EDST 631

EDST632-21X (D) 08 Feb 2021 - 07 Nov 2021

EDST 633 Practicum in Early Intervention

30 Points 0.2500 EFTS

A supervised practicum in the area of Early Intervention.

P: EDST 601 and EDST 631

C: EDST 632

EDST633-21X (D) 08 Feb 2021 - 07 Nov 2021

EDST 642 Evidence-based Interprofessional Practice in Learning and Behaviour Diversity

30 Points 0.2500 EFTS

An examination of evidence-based professional practices in the area of Learning and Behaviour, including common professional practices of specialist teachers and other educational and health professionals involved in special and inclusive education.

P: EDST 601 and EDST 641

EDST642-21X (D) 08 Feb 2021 - 07 Nov 2021

EDST 643 Practicum in Learning and Behaviour Diversity

30 Points 0.2500 EFTS

A supervised practicum in the area of Learning and Behaviour.

P: EDST 601 and EDST 641

C: EDST 642

EDST643-21X (D) 08 Feb 2021 - 07 Nov 2021

EDST 652 Evidence-based Interprofessional Practice in Complex Educational Needs

30 Points 0.2500 EFTS

An examination of evidence-based practices for specialist teachers of learners who have complex educational needs, including common professional practices of specialist teachers and other educational and health professionals involved in special and inclusive education.

P: EDST 601 and EDST 651

EDST652-21X (D) 08 Feb 2021 - 07 Nov 2021

EDST 653 Practicum in Complex Educational Needs

30 Points 0.2500 EFTS

A practicum to support the inclusion of learners with complex educational needs.

P: EDST 601 and EDST 651

EDST653-21X (D) 08 Feb 2021 - 07 Nov 2021

EDUC 101 Spark! How & What People Learn

15 Points 0.1250 EFTS

"Wait, what?" In this course, we address this and other questions about life to understand how people learn as well as the social, political, and global contexts in which learning takes place. Through these questions, we view learning from diverse perspectives to understand learning in Aotearoa New Zealand and elsewhere around the world. Course assessments are designed in a way that link theories of learning to any academic discipline or subject area while also giving you the opportunity to apply your knowledge in a unique way which can improve your studies at UC as well as the local Christchurch community.

EDUC101-20SU2 (D) Summer (Nov 20)

EDUC101-21S2 (C) Semester 2

EDUC101-21S2 (D) Semester 2

EDUC 102 Child and Adolescent Development

15 Points 0.1250 EFTS

This course establishes a foundation in theory, concepts, processes and factual knowledge of infant, child, and adolescent development within the context of family, school, and community. Students will acquire an understanding of the developmental processes that take place within and across physical, cognitive, emotional, and social domains, and their associations with developmental outcomes.

R: TEDU 110, EDUC 121, TEDU 150, TEDU 102

EQ: TEDU 110

EDUC102-21S1 (C) Semester 1

EDUC102-21S1 (D) Semester 1

EDUC 103 Education, Culture and Society

15 Points 0.1250 EFTS

This course provides an introduction to foundational theories, concepts and processes in the study of education. The course explores theories about power, justice and fairness in society, with a particular focus on how they relate to education. It also examines what part factors such as class, genders and sexualities, disability, and race may play in maintaining unequal forms of education. An important feature of the course will be analysing the role played by education in the development of colonial relations between Māori and Pakeha, and how that continues to shape contemporary New Zealand society.

R: EDUC 120 and TEDU 111

EQ: TEDU 111

EDUC103-21S2 (C) Semester 2

EDUC103-21S2 (D) Semester 2

EDUC 202 One in Four: Different Developmental Pathways

15 Points 0.1250 EFTS

One in four children or adolescents will experience a disorder, disability, or trauma affecting their development and educational opportunities. In this course, students will consider the developmental and educational issues relating to children with different developmental pathways, including pathways affected by mental and physical health, trauma, and disability.

P: 30 points in EDUC or PSYC, or permission of the Head of School

EDUC202-21S1 (C) Semester 1

EDUC202-21S1 (D) Semester 1

EDUC 204 Promoting Child and Adolescent Wellbeing and Health

15 Points 0.1250 EFTS

This course will explore ways in which well-being, resilience, and positive developmental trajectories may be promoted from infancy through adolescence. Current research and theoretical models will be used to explore a number of critical issues related to health and well-being in a New Zealand context from developmental, educational, and positive psychology perspectives.

P: 30 points in EDUC or PSYC, or permission of the Head of School

EDUC204-21S2 (C) Semester 2

EDUC204-21S2 (D) Semester 2

EDUC 206 Education and Society: Ideals and Realities

15 Points 0.1250 EFTS

This course considers the connections and tensions between ideals and realities in education and society. Drawing on work in the sociology of education, the philosophy of education, and educational policy studies, as well as on educational practices, the course addresses questions such as these: How should society be structured? What do we hope to achieve through education? Why do some students 'fail' and others 'succeed'? What role can education play in social change? This course encourages participants to deepen their understanding of education, social life, and human fulfillment.

P: 30 points in EDUC or 45 points of SOCI, POLS, HIST, CULT, ANTH, SPCO or permission of the Head of School

R: EDUC 220

EDUC206-21S1 (D) Semester 1

EDUC206-21S1 (C) Semester 1

EDUC 302 Researching Development: Opportunities and Risks in Adolescence
30 Points 0.2500 EFTS

This course is designed to provide students with an introduction to theory and research in adolescent development, with a special focus on risks and opportunities that are present in this stage of the life course. Students will be introduced to the core themes and a range of theory and research that is common to a developmental approach to adolescence, with an emphasis on the implications for education and positive development.

P: EDUC 202 or EDUC 204 or any 30 points at 200 level of EDUC, or PSYC, HLED, HLTH, or HSRV, or by permission of the Head of School.

EDUC302-21S2 (D) Semester 2
EDUC302-21S2 (C) Semester 2

EDUC 315 Educating for Diversity
30 Points 0.2500 EFTS

This course introduces students to methods of critical enquiry into practices that engage with diversities across a range of formal and informal educational sites.

P: EDUC 206 or any 30 points at 200 level of EDUC or SOCI, POLS, HIST, CULT, ANTH, or by permission of the Head of School.

R: EDUC 215 completed before 2000

EDUC315-21S2 (C) Semester 2
EDUC315-21S2 (D) Semester 2

EDUC 339 Globalisation, Social Justice and Education
30 Points 0.2500 EFTS

Recent changes in technology, political arrangements, and social and economic systems have been so rapid and far-reaching that they are said to have ushered in a new era of globalisation. Sometimes presented as inevitable, globalisation has become the focus of considerable contest of ideas, policies and practices. This course examines the origins and nature of globalisation, and analyses its implications for education.

P: EDUC 206 or any 30 points at 200 level of EDUC or SOCI, POLS, HIST, CULT, ANTH, or by permission of the Head of School.

EDUC339-21S1 (C) Semester 1
EDUC339-21S1 (D) Semester 1

EDUC 414 Educational Philosophy and Policy
30 Points 0.2500 EFTS

This course will be of interest to anyone who has pondered the nature and purpose of education and considered its significance in building better worlds. With a central theme of 'utopia and education', the course encourages students to address questions such as these: What is education for and why does it really matter? How can education contribute to a more meaningful and worthwhile life? What should we seek to know and why? What social ideals should we seek to uphold, and what are some of the impediments to the pursuit of these ideals? The course will draw on literary works and the visual arts as well as more traditional educational and philosophical sources. Students will have the opportunity to apply insights from the course to policy contexts, and to explore the implications of educational theory for professional practice and everyday life.

P: Subject to the approval of the Head of School

R: EDEM 650

EDUC414-21S2 (C) Semester 2

EDUC 418 Independent Study
30 Points 0.2500 EFTS

An independent course of postgraduate study on approved topics. An individual study plan is developed. Please discuss with individual lecturers or the HOS.

P: Subject to approval of the Head of School.

EDUC418-21A (C) Starts Anytime

EDUC 480 Research Project
30 Points 0.2500 EFTS

A individual research project approved by the Head of School. Talk with a lecturer or the HOS to develop an individual plan.

P: Subject to approval of the Head of School.

EDUC480-21W (C) Whole Year (S1 and S2)

EDUC 690 MA Thesis
120 Points 1.0000 EFTS

P: Subject to approval of the Head of School.

EDUC690-21A (C) Starts Anytime

Part-time enrolment (0.65 EFTS) is available on approval.

EDUC 790 Education PhD
120 Points 1.0000 EFTS

P: Subject to approval of the Head of School.

EDUC790-21A (C) Starts Anytime

*Part-time enrolment (0.65 EFTS) is available on approval. *From 1 January 2008, international students who are residing in New Zealand on a NZ Immigration Study Visa pay the Domestic Fee for this course. International fees apply for all other courses.*

EDUC 795 Doctor of Education (EdD)
120 Points 1.0000 EFTS

Education EdD

P: Subject to approval of the Head of School

EDUC795-21A (C) Starts Anytime

EDUC795-21X (C) 22 Feb 2021 - 20 Feb 2022

*Part-time enrolment (0.65 EFTS) is available on approval. *From 1 January 2008, international students who are residing in New Zealand on a NZ Immigration Study Visa pay the Domestic Fee for this course. International fees apply for all other courses.*

PACE 395 Internship
30 Points 0.2500 EFTS

What can you do with your major? With your degree? The purpose of the internship course is to explore both the ideological and practical assumptions guiding this question. The course is designed to be a critical, theoretical and "real-world" examination of the practices and ideologies inherent in both community and business organisations. You will apply the analytical skills acquired through your major, and through class seminars and readings, to a project designed by a local company or community group. Please check out the website for further information and specific project descriptions: www.arts.canterbury.ac.nz/internships

P: 150 points, special application and interview, and permission of the Internship Director.

R: ARTS 395

EQ: ARTS 395

PACE395-20S2 (C) Summer (Nov 20)

PACE395-21A (C) Starts Anytime

PACE395-21S1 (C) Semester 1

PACE395-21S2 (C) Semester 2

Limited entry. See limitation of entry regulations. A student will be selected for a specific project.

Only students accepted for projects will be allowed into the course. Please go to <http://www.arts.canterbury.ac.nz/internships> for more information.

YACL 102 Special Topic: Introduction to Professional Youth Work in Aotearoa

15 Points 0.1250 EFTS

In this course, you will be introduced to and learn about the professional practice of youth work in Aotearoa. You will learn about the context within which youth work in Aotearoa operates, its history and current structures in Aotearoa. The course will help you understand the principles of the sector and explicitly acknowledges the diversity and mana of young people. In this course, you will examine how young people build and sustain quality relationships and connect to the social, physical and digital world, demonstrating knowledge of hononga and whānau tangata. We will investigate the legal and ethical requirements for the care of young people in Aotearoa in the context of holistic wellbeing, responsibility and reciprocity. You will be introduced to frameworks that are used in the youth work sector to facilitate manaakitanga, youth participation and whai whaitanga, recognising young people as valued contributors to society.

YACL102-21S2 (C) Semester 2

YACL102-21S2 (D) Semester 2

Electrical and Electronic Engineering

*Department of Electrical and Computer Engineering***ENEL 198 Electrical Workshop Course**
0 Points 0.0000 EFTS

Compulsory workshop course for Electrical and Electronic Engineering, Computer Engineering and Mechatronic Engineering students.

P: Approval into the BE(Hons)

C: ENEL 270

ENEL198-21A (C) Starts Anytime

ENEL 199 Basic Workshop Course
0 Points 0.0000 EFTS

Compulsory workshop course for Electrical and Electronic Engineering students and Computer Engineering students

P: Approval into the BE(Hons)

C: ENEL 200

ENEL199-21A (C) Starts Anytime

ENEL 200 Electrical and Computer Engineering Design
15 Points 0.1250 EFTS

Introduction to Electrical and Computer Engineering design principles. Electronic circuit simulation leading to a design-and-build project including circuit design and simulation, printed circuit board design, and construction of a working device with documentation. Documentation preparation.

P: Subject to the approval of the College of Engineering Dean (Academic)

R: ENEL 211

ENEL200-21W (C) Whole Year (S1 and S2)

ENEL 220 Circuits and Signals

15 Points 0.1250 EFTS

Circuit laws and theorems. Transients and steady state behaviours of resistive, capacitive and inductive circuits. Laplace transforms. Fourier transforms and series. Linear system behaviour.

P: Subject to the approval of the Dean of Engineering and Forestry

R: ENEL 202

ENEL220-21W (C) Whole Year (S1 and S2)**ENEL 270 Principles of Electronics and Devices**

15 Points 0.1250 EFTS

Linear amplifiers. Operational amplifiers. Operational amplifier circuits. Nonlinear devices: diodes & transistors. Switching circuits. Power supplies, AC to DC conversion.

P: PHYS 102, MATH 103 or EMTH 119; or Approval of the Dean of Engineering and Forestry

R: ENEL 203

ENEL270-21S1 (C) Semester 1**ENEL 280 Principles of Electrical Systems**

15 Points 0.1250 EFTS

Magnetic circuits and materials. Phasor analysis of single and three phase power. Transformers. Principles of electrical generation and distribution systems, synchronous and induction machines. DC machines. Motor control.

P: Subject to the approval of the Dean of Engineering and Forestry

R: ENEL 204

ENEL280-21S1 (C) Semester 1**ENEL 290 Waves and Materials in Electrical Engineering**

15 Points 0.1250 EFTS

Waves in electrical engineering. Static electric and magnetic fields. Transmission lines: equivalent circuit, wave propagation, reflections and matching. Plane waves: time varying fields and Maxwell's Equations. Electrical engineering materials: conductors, insulators and semiconductors.

P: PHYS 102, MATH 103 or EMTH 119; or Approval of the Dean of Engineering and Forestry.

ENEL290-21S2 (C) Semester 2**ENEL 300 Electrical and Computer Engineering Design 2**

15 Points 0.1250 EFTS

Electrical and Computer Engineering design principles. Electronic system design-and-build. Circuit design and simulation. Printed circuit board design. Embedded system programming/development, construction, and documentation. Novel product design, applying project management and market consideration elements. Individual on-paper design related to student's specialisation. Industry-based design systems. Documentation preparation.

P: ENEL 200, ENCE 260, ENEL 270. Subject to approval of the Head of Department

R: ENEL 350

ENEL300-21S2 (C) Semester 2**ENEL 301 Fundamentals of Engineering Economics and Management**

15 Points 0.1250 EFTS

Engineering projects and ventures require management. This course identifies the different management activities involved and develops the skills necessary for managing technology projects and professional practice. Specifically, the course formally covers the following graduate competencies required for engineers as per the Washington Accord Graduate (2009).

P: 15 points of any First Professional Engineering course

R: ENEL 350

ENEL301-21S2 (C) Semester 2**ENEL 320 Signals and Communications**

15 Points 0.1250 EFTS

Communication engineering and signal processing. Convolution, correlation, Fourier series and transform, amplitude modulation, angle modulation, analogue filters, random processes, noise in modulated systems, discrete signal processing, digital transmission (PCM, TDM and FDM), DTFT/DFT and FIR/IIR filter design.

P: ENEL 220, EMTH 210, ENEL 321

R: ENEL 332, ENEL 351

ENEL320-21S2 (C) Semester 2**ENEL 321 Control Systems**

15 Points 0.1250 EFTS

System modelling. Continuous-time dynamics. Time domain and frequency domain analysis. Feedback control. Control system performance and robustness. Control system design techniques.

P: ENEL 220, EMTH 210

R: ENEL 351, ENME 303

ENEL321-21S1 (C) Semester 1**ENEL 372 Power and Analogue Electronics**

15 Points 0.1250 EFTS

Analogue electronics is necessary for signal sensing, amplification and filtering before digital techniques can be applied. Power electronics is necessary where efficient manipulation of electrical energy is required, for power supply, motion control and other applications. This course covers the basic principles of both analogue and digital electronic circuits, and the constraints that real components and devices place on these circuits. Emphasis is placed on circuit analysis and design skills.

P: ENEL 270

R: ENEL 370 and ENEL 371

ENEL372-21S2 (C) Semester 2**ENEL 373 Digital Electronics and Devices**

15 Points 0.1250 EFTS

This is an in-depth course that takes logic theory and applies it to the analysis, synthesis and simulation of digital logic circuits; and the application and theory of implementing electronics devices. The course also covers the implementation of circuit designs using a hardware description language with specific application to the design of ALUs and simple microprocessors. We also cover the digital assumption made of switching analogue circuits, look at the physical implementation of transistors, circuits based on them and interconnecting components. Assumed knowledge in basic computer architecture and electronics.

P: ENEL 270 and ENCE 260

R: ENEL 391 and ENCE 362

ENEL373-21S1 (C) Semester 1**ENEL 382 Electric Power and Machines**

15 Points 0.1250 EFTS

The electric power systems course encompasses the concerns of bulk electrical energy, its production or generation, the bulk transmission, local area distribution and final consumption (the load) as needed by industry, commerce and households. These topics from the component level and up through the system as a whole. Analysis techniques for power systems under both steady-state and transient conditions are developed. Electrical machine level concepts are also covered, including generators, transformers and motors.

P: ENEL 280

R: ENEL 380 and ENEL 381

ENEL382-21S1 (C) Semester 1**ENEL 400 Electrical and Computer Engineering Research Project**

30 Points 0.2500 EFTS

This course is the capstone final year honours project. It involves research and design and develops skills in life-time learning.

P: Final Year of Study

R: ENEL 427, ENCE 427

ENEL400-21W (C) Whole Year (S1 and S2)**ENEL 420 Advanced Signals**

15 Points 0.1250 EFTS

An advanced course on methods for digitally processing signals. Practical methods of designing digital signal filters, especially those with finite impulse response, including implementation on devices with finite precision. Statistical signal processing and estimation. Multidimensional signals and signal processing. The multidimensional Fourier transform and applications. Time-frequency analysis and the wavelet transform.

P: ENEL 320 OR ENMT 301

R: ENEL 440

ENEL420-21S2 (C) Semester 2**ENEL 422 Communications Engineering**

15 Points 0.1250 EFTS

Topics covered: baseband transmission, signal space, digital modulation and reception, equalization, communications systems, error control coding and networking.

P: ENEL 320

R: ENEL 433

ENEL422-21S1 (C) Semester 1**ENEL 441 Special Topic**

15 Points 0.1250 EFTS

P: Subject to approval of the Head of Department.

ENEL441-21W (C) Whole Year (S1 and S2)**ENEL 442 Special Topic in Electrical and Electronic Engineering**

15 Points 0.1250 EFTS

P: Subject to approval of the Head of Department.

ENEL442-21S1 (C) Semester 1**ENEL442-21W (C) Whole Year (S1 and S2)**

ENEL 443 Independent Course of Study

15 Points 0.1250 EFTS

P: Subject to approval of the Head of Department.

ENEL443-21S1 (C)	Semester 1
ENEL443-21W (C)	Whole Year (S1 and S2)
ENEL443-21S2 (C)	Semester 2

ENEL 471 Power Electronics 2

15 Points 0.1250 EFTS

High Frequency Switching Converters, Multi-switch forward converters, Converter Modelling and Control, HF magnetics design, Snubbers, EMI and Thermal management, Semiconductor switch properties, resonant converters, induction machine properties, drives, starters and control, multi-level converters.

P: ENEL 371, ENEL 372

R: ENEL 436

ENEL471-21S2 (C)	Semester 2
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ENEL 480 Electrical Power Systems

15 Points 0.1250 EFTS

This course is designed to build on Electric Power and Machines (ENEL382) by giving a more in-depth treatment of some areas (power-flow and fault analysis) while covering in detail new areas such as reliability assessment and protection. New developments in electrical power systems are covered. In the process of teaching this course and by using a design assignment as problem-based learning tool students will learn how a large real power system will perform and how to engineer solutions to identified problems.

P: ENEL 382

R: ENEL 437

ENEL480-21S1 (C)	Semester 1
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ENEL 481 Electrical Machines

15 Points 0.1250 EFTS

Unified electroheater and transformer design; power transformer assessment and industry standard high voltage testing of generators, transformers and cables. Rotating Machines.

P: ENEL 381, ENEL 382

R: ENEL 439

ENEL481-21S2 (C)	Semester 2
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ENEL 491 Nano Engineered Devices

15 Points 0.1250 EFTS

Micro- and nano-electronic device design and fabrication technology. Physics of electronic materials. Advanced semiconductor devices. Solar cells design and fabrication. Future trends in nano-electronics. Micro- and nano-fluidics and their applications.

P: ENCE 362 or ENEL 373 or ENEL 372

ENEL491-21S1 (C)	Semester 1
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Tāura | Postgraduate

Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.

ENEL 663 Independent Course of Study

15 Points 0.1250 EFTS

P: Subject to approval of the Head of Department.

ENEL663-21S1 (C)	Semester 1
ENEL663-21W (C)	Whole Year (S1 and S2)
ENEL663-21S2 (C)	Semester 2

ENEL 667 Renewable Electricity System Design

15 Points 0.1250 EFTS

This course is aimed at applying system theory to the practical design of renewable electricity systems. It is primarily focused on technical design. Topics can include (but are not limited to) the design of renewable electricity systems and/or their components: generation, inverters, electricity storage devices, component or system protection and control, integrated off-grid and grid tied systems.

R: ENEL 663, ENEL 664

ENEL667-21S2 (C)	Semester 2
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ENEL 685 Electrical Postgraduate Project

30 Points 0.2500 EFTS

A self-contained electrical or computer engineering project, to be undertaken subject to the availability of suitable supervision and resources.

P: Subject to approval of the Head of Department.

ENEL685-21A (C)	Starts Anytime
ENEL685-21W (C)	Whole Year (S1 and S2)
ENEL685-21CY (C)	Cross Year

ENEL 690 Electrical ME Thesis

120 Points 1.0000 EFTS

P: Subject to approval of the Head of Department.

ENEL690-21A (C)	Starts Anytime
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Part-time enrolment (0.65 EFTS) is available on approval.

ENEL 790 Electrical and Electronic Engineering PhD

120 Points 1.0000 EFTS

P: Subject to approval of the Head of Department.

ENEL790-21A (C)	Starts Anytime
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*Part-time enrolment (0.65 EFTS) is available on approval. *From 1 January 2008, international students who are residing in New Zealand on a NZ Immigration Study Visa pay the Domestic Fee for this course. International fees apply for all other courses.*

Engineering**College of Engineering****COSC 131 Introduction to Programming for Engineers**

15 Points 0.1250 EFTS

Computer programming in a high-level language with special emphasis on numerical computation. This course is required for engineering intermediate and is an alternative to COSC121 as a prerequisite for COSC122 and all 200 level COSC and SENG courses. COSC131 teaches the fundamentals of computer programming using the Python language and can be taken by students who have no previous programming background. Topics include expressions, assignment, selection and iteration, structured data (lists, dictionaries, tuples, arrays), functional decomposition, file processing, numerical computation with numpy, graph plotting with matplotlib, some basic numerical algorithms and an introduction to object-oriented programming.

R: COSC 121

COSC131-21S1 (C)	Semester 1
COSC131-21S2 (C)	Semester 2
COSC131-21SU2 (C)	Summer (Nov 20)

ENGR 100 Engineering Academic Skills

0 Points 0.0000 EFTS

This course is normally taken at the same time as ENGR101 Foundations of Engineering. Students will be tested to assess their academic writing skills. Students who fail the initial assessment will be given feedback indicating their area(s) of weakness, and will have the opportunity to re-sit the assessment. All students are required to pass this course in order to be accepted into the Professional Engineering degree. First year Engineering students will be provided with academic skills, support and help with adjustment to UC Engineering.

ENGR100-21W (C)	Whole Year (S1 and S2)
ENGR100-21A (C)	Starts Anytime

ENGR 101 Foundations of Engineering

15 Points 0.1250 EFTS

This skills-based course will introduce students to the "engineering process". Through a series of lectures, exercises and projects, the students will gain experience in specific skills and activities that contribute to the engineering process. Examples include problem solving, technical sketching, team work and report writing. Additionally, the importance of sustainability, ethics and biculturalism in an engineering context will be introduced. Students will also gain a better understanding of the different engineering disciplines in regards to a career choice.

ENGR101-20SU2 (C)	Summer (Nov 20)
ENGR101-21S1 (C)	Semester 1

ENGR 102 Engineering Mechanics

15 Points 0.1250 EFTS

A course for students advancing in Engineering programmes that requires in-depth analysis of components and structures, ENGR102 reinforces concepts of free-body diagrams and the mechanics of real life applications (both statics and dynamics).

P: EMTH 118

C: EMTH 119, PHYS 101

ENGR102-20SU2 (C)	Summer (Nov 20)
ENGR102-21S2 (C)	Semester 2

ENGR 200 Engineering Work Experience

0 Points 0.0000 EFTS

This course provides the means for students to accomplish the non-academic requirements for the BE(Hons). The requirements are completion of a health and safety quiz, a risk assessment, first aid competency, and two work report and self-reviews based on 800 hours of engineering work experience.

P: Acceptance into a professional year of the BE(Hons) programme.

RP: Completion of Engineering Intermediate

ENGR200-21A (C)	Starts Anytime
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ENGR 210 Independent Course of Study

15 Points 0.1250 EFTS

P: Subject to the approval of the Head of Department.

ENGR210-20SU2 (D) Summer (Nov 20)**ENGR210-21S1 (C) Semester 1****ENGR210-21W (C) Whole Year (S1 and S2)****ENGR210-21S2 (C) Semester 2****ENGR 211 Special Topic in Engineering**

15 Points 0.1250 EFTS

P: Subject to the approval of the Dean of Engineering

ENGR211-21S1 (C) Semester 1**ENGR211-21W (C) Whole Year (S1 and S2)****ENGR211-21S2 (C) Semester 2****ENGR 212 Special Topic in Engineering**

15 Points 0.1250 EFTS

P: Subject to the approval of the Dean of Engineering

ENGR212-21S1 (C) Semester 1**ENGR212-21W (C) Whole Year (S1 and S2)****ENGR212-21S2 (C) Semester 2****ENGR 301 Special Topic in Engineering**

15 Points 0.1250 EFTS

P: Subject to approval of the Head of Department.

ENGR301-21S1 (C) Semester 1**ENGR301-21W (C) Whole Year (S1 and S2)****ENGR301-21S2 (C) Semester 2****ENGR 303 Special Topic in Engineering**

15 Points 0.1250 EFTS

P: Subject to the approval of the Director of Studies

ENGR303-21S1 (C) Semester 1**ENGR303-21W (C) Whole Year (S1 and S2)****ENGR303-21S2 (C) Semester 2****ENGR 304 Independent Course of Study**

15 Points 0.1250 EFTS

P: Subject to the approval of the Director of Studies

ENGR304-21S1 (C) Semester 1**ENGR304-21W (C) Whole Year (S1 and S2)****ENGR304-21S2 (C) Semester 2****ENGR 310 Independent Course of Study**

15 Points 0.1250 EFTS

P: Subject to the approval of the Head of Department.

ENGR310-21S1 (C) Semester 1**ENGR310-21W (C) Whole Year (S1 and S2)****ENGR310-21S2 (C) Semester 2****ENGR 315 Humanitarian Engineering Practice**

30 Points 0.2500 EFTS

This course comprises a module on Humanitarian Field Engineering, comprising of a taught component and a domestic practical field engineering programme. Students will have the opportunity to complete a project, field placement or attend a Design Summit as part of the course.

P: At least 30 points selected from the courses listed in schedules C and D of the Diploma of Global Humanitarian Engineering.

R: ENGR 316

RP: 3 completed years of the BE(HONS) degree

EQ: ENGR 316

ENGR315-20SU2 (C) Summer (Nov 20)**ENGR315-21X (C) 05 Apr 2021 - 26 Dec 2021****ENGR 401 Computational Fluid Dynamics**

15 Points 0.1250 EFTS

Theoretical and practical aspects of Computational Fluid Dynamics, including the theory of fluid flow equations, numerical methods of solving these equations, turbulence, and experience with a commercial CFD software.

P: ENME 304 or ENME 314, or ENCH 393, or ENCN 342

ENGR401-21S1 (C) Semester 1**ENGR 402 Special Topic: Rocket Systems Design and Control**

15 Points 0.1250 EFTS

P: ENEL 321 or ENME 303 or equivalent.

ENGR402-21S2 (C) Semester 2**ENGR 403 Fire Engineering**

15 Points 0.1250 EFTS

Introduction to Fire Engineering. Fire ignition, flame spread and flame height. The performance of construction materials and fire resistance. People movement and behaviour during fires. Fire detection, suppression and smoke extract systems. Wildland fires, fire investigation, fire-fighting.

P: Subject to approval of the Director of Studies

ENGR403-21SU1 (C) Summer (Jan 21)**ENGR403-21S1 (C) Semester 1****ENGR 404 Emerging Energy Technologies and Management**

15 Points 0.1250 EFTS

This course explores various emerging technologies related to the needs for energy, including the supply of renewable energy. This includes topics such as combined heat and power systems, biomass and thermo-chemical processing, wind, geothermal and solar energy processes. This course will also discuss the applications of catalysis in the production of energy carriers, starting at a basic level, and includes sections on adsorption and surface science, catalytic kinetics, evaluation on the modern catalytic processes in oil/gas refinery and studying key characteristics of emerging nanomaterials that enable them to become an effective catalyst in energy applications.

P: ENCH 291 or subject to approval of the Director of Studies.

R: ENME 405, ENME 605

ENGR404-21S2 (C) Semester 2**ENGR 405 Industrial Pollution Control**

15 Points 0.1250 EFTS

This course aims to advance students' abilities in applying and evaluating the physico-chemical treatment processes for industrial wastewater pollution control, air pollution, and contaminated groundwater remediation, as well as to expose the student to other less frequent pollution sources, such as noise pollution.

P: Subject to approval of the Director of Studies

ENGR405-21S1 (C) Semester 1**ENGR 407 Bioprocess Engineering 1**

15 Points 0.1250 EFTS

Engineering biochemistry covering enzyme kinetics, metabolism and applied molecular biology.

P: ENCH 281 or subject to approval of the Director of Studies

ENGR407-21S2 (C) Semester 2**ENGR 410 Independent Course of Study**

15 Points 0.1250 EFTS

P: Subject to the approval of the Head of Department.

ENGR410-21S1 (C) Semester 1**ENGR410-21W (C) Whole Year (S1 and S2)****ENGR410-21S2 (C) Semester 2****ENGR 476 Independent Course of Study**

15 Points 0.1250 EFTS

P: Subject to the approval of the Head of Department

ENGR476-21S1 (C) Semester 1**ENGR476-21W (C) Whole Year (S1 and S2)****ENGR476-21S2 (C) Semester 2****ENGR 477 Independent Course of Study**

15 Points 0.1250 EFTS

P: Subject to the approval of the Head of Department.

ENGR477-21S1 (C) Semester 1**ENGR477-21W (C) Whole Year (S1 and S2)****ENGR477-21S2 (C) Semester 2****Tāura | Postgraduate**

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ENCN 623 Energy Systems Modelling and Analysis

15 Points 0.1250 EFTS

Critical analysis of 100% renewable energy systems; advanced energy system modelling; analysis and application of selected software for energy system modelling including EnergyPlan, Systems Advisor Model (SAM) and modelling of photovoltaic-diesel systems (ASIM).

P: ENNR 423 or subject to approval of the Head of Department

ENCN623-21S2 (C) Semester 2

ENCN 625 Wind Resource Modelling

15 Points 0.1250 EFTS

Analytical and numerical modelling experience for wind resource assessment; application of numerical weather prediction models for wind energy; understanding the role of complex terrain and weather systems in wind energy variability; Develop theoretical and practical knowledge for wind resource spatial modelling.

ENCN625-21S2 (C) Semester 2**ENGR 601 Advanced Computational Fluid Dynamics**

15 Points 0.1250 EFTS

Theoretical and practical aspects of Computational Fluid Dynamics, including the theory of fluid flow equations, numerical methods of solving these equations, turbulence, and experience with a commercial CFD software.

P: Subject to approval of the Head of Department

R: ENGR 401

RP: Bachelors degree in Engineering or equivalent

ENGR601-21S1 (C) Semester 1**ENGR 621 Energy, Technology and Society**

15 Points 0.1250 EFTS

The roles of civil, natural resources, electrical, mechanical, chemical/process engineering, environmental psychology, sociology and economics in the multi-disciplinary subject of energy engineering; the application of thermodynamics and electricity in energy system conceptual design, advanced concepts in economics comparing paradigms such as classical, neo-classical and steady-state economics; the decoupling of economic growth from energy consumption; energy poverty and energy services.

P: Subject to the approval of the Head of Department.

ENGR621-21S1 (C) Semester 1**ENGR 675 Independent Course of Study**

15 Points 0.1250 EFTS

P: Subject to approval of the Head of Department.

ENGR675-21S1 (C) Semester 1**ENGR675-21W (C) Whole Year (S1 and S2)****ENGR675-21S2 (C) Semester 2****ENGR 682 Special Topic in Engineering - Project**

15 Points 0.1250 EFTS

P: Subject to the approval of the Head of Department.

ENGR682-21S1 (C) Semester 1**ENGR682-21W (C) Whole Year (S1 and S2)****ENGR682-21S2 (C) Semester 2****ENGR 683 Special Topic in Engineering - Project**

30 Points 0.2500 EFTS

Students will gain experience in performing research in an engineering field.

P: Subject to the approval of the Dean of Engineering

ENGR683-21A (C) Starts Anytime**ENGR683-21S1 (C) Semester 1****ENGR683-21W (C) Whole Year (S1 and S2)****ENGR683-21S2 (C) Semester 2****ENGR 684 Special Topic**

15 Points 0.1250 EFTS

P: Subject to the approval of the Head of Department.

ENGR684-20SU2 (C) Summer (Nov 20)

R: ENGE 472

ENGE411-21X (C)**19 July 2021 - 12 Sep 2021****ENGE 412 Rock Mechanics and Rock Engineering**

15 Points 0.1250 EFTS

This course focuses on description and representation of a rock mass, stress and strain in a rock mass and deformation and failure of a rock mass. These are applied to rock slope stability analysis and design of underground excavations.

P: (i) ENCN 353 or (2) MATH 101 or MATH 102 or MATH 103 and (3) approval from the Head of Department of Geological Sciences

R: ENGE 485

ENGE412-21S1 (C) Semester 1**ENGE 413 Soil Mechanics and Soil Engineering**

15 Points 0.1250 EFTS

Formation, properties, description and representation of soils. Stress and strain in soils. Deformation and failure of soils. Engineered soil slope stability and foundation analysis. Underground excavation and ground treatment in soil.

P: (i) MATH 101 or MATH 102 or MATH 103 and (2) approval from the Head of Department of Geological Sciences

R: ENCN 253; ENGE 485

ENGE413-21S2 (C) Semester 2**ENGE 414 Applied Hydrogeology**

15 Points 0.1250 EFTS

The Applied Hydrogeology course provides postgraduate students in engineering geology and environmental science with a sound understanding of the nature and occurrence of groundwater, various techniques for resource evaluation, contaminant transport issues, and a brief introduction to groundwater modelling. The course is an integrated one, developing both geological aspects of groundwater occurrence and chemistry, as well as pragmatic methods for quantifying flow parameters and aquifer characteristics.

P: (i) MATH 101 or MATH 102 or MATH 103 and (2) approval from the Head of Department of Geological Sciences

R: ENGE 478

ENGE414-21X (C) 26 Apr 2021 - 30 May 2021**ENGE414-21T2 (C) 26 Apr 2021 - 06 June 2021****ENGE 416 Engineering Geology Synthesis and Project Preparation**

15 Points 0.1250 EFTS

Students will work on engineering geology synthesis by applying all of the skills they have learned in the ENGE courses to real-world based problems. Students will also prepare for the project portfolio (ENGE 691). The content of the projects is not fixed, and the principal aim is for students to prepare an industry relevant design or research project. The project itself may be primarily field based, it could be mostly a laboratory study, and there will be components of literature review and project planning involved.

P: (i) ENGE 410 and (2) approval from the Head of Department of Geological Sciences

R: ENGE 495

ENGE416-21X (C) 05 Apr 2021 - 07 Nov 2021**ENGE 417 Foundations of Engineering Geology**

30 Points 0.2500 EFTS

This course covers the fundamentals of engineering geology by a structured approach to site investigation, with the goal of developing accurate engineering ground models.

P: Approval by Head of Department.

R: ENGE 410, ENGE 415, ENGE 471, ENGE 486

RP: BSc Geology or equivalent

ENGE417-21T1 (C) 15 Feb 2021 - 04 Apr 2021*Limited entry. See limitation of entry regulations.***ENGE 481 Special Topic**

15 Points 0.1250 EFTS

P: Subject to approval of the Head of Department.

ENGE481-21S1 (C) Semester 1**ENGE 482 Special Topic**

15 Points 0.1250 EFTS

P: Subject to approval of the Head of Department.

ENGE482-21S2 (C) Semester 2**ENGE 690 MSc Thesis**

120 Points 1.0000 EFTS

P: Subject to approval of the Head of Department.

ENGE690-21A (C) Starts Anytime*Part-time enrolment (0.65 EFTS) is available on approval.*

Engineering Geology

Department of Geological Sciences

Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.

ENGE 411 Engineering Construction Practice

15 Points 0.1250 EFTS

This course is concerned with the nature and properties of construction materials for civil projects, general design principles and construction practices in rock and soil, and selected case studies (both historical and current). It also considers appropriate engineering geology practice for various surface and subsurface projects, with emphasis on project failures and the implications for sound geotechnical practice. Knowledge of precedent is fundamental to engineering design and construction, and the course content is inherently practical rather than theoretical.

P: (i) ENGE 410 and (2) approval from the Head of Department of Geological Sciences

ENGE 691 Engineering Geology Project Portfolio

60 Points 0.5000 EFTS

Professional design or research project in Engineering Geology. The emphasis is on developing technical and professional skills by working on: progress presentations, progress reporting, project management, poster presentation and manuscript writing, all of which will constitute a portfolio that can be used in their professional careers.

P: 120 Points at 400-level including ENGE 410, 411, 412, 413, 414, 415, 416 and DRRE 402. Substitutions may be made in exceptional circumstances.

ENGE691-21X (C) 31 May 2021 - 26 Dec 2021

ENGE 790 Engineering Geology PhD

120 Points 1.0000 EFTS

P: Subject to approval of the Head of Department.

ENGE790-21A (C) Starts Anytime

Part-time enrolment (0.65 EFTS) is available on approval. *From 1 January 2008, international students who are residing in New Zealand on a NZ Immigration Study Visa pay the Domestic Fee for this course. International fees apply for all other courses.

Engineering Management

College of Engineering

Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.

ENMG 601 Engineering Accounting

12 Points 0.1000 EFTS

Financial Accounting, Management Accounting.

P: Subject to approval of the Programme Director.

ENMG601-21W (C) Whole Year (S1 and S2)

ENMG 602 Engineering Economics and Finance

12 Points 0.1000 EFTS

Microeconomics, Macroeconomics, Finance.

P: Subject to approval of the Programme Director.

ENMG602-21W (C) Whole Year (S1 and S2)

ENMG 603 Legal and Human Resources

12 Points 0.1000 EFTS

Business Law, Human Resources Management, Intellectual Property Law and Management.

P: Subject to approval of the Programme Director.

ENMG603-21W (C) Whole Year (S1 and S2)

ENMG 604 Technology, Innovation and Engineering Management

12 Points 0.1000 EFTS

Engineering Management, Technology and Innovation Management, Quality Management, Project Management, Maintenance Management.

P: Subject to approval of the Programme Director.

ENMG604-21W (C) Whole Year (S1 and S2)

ENMG 605 Marketing, Selling and Service

12 Points 0.1000 EFTS

Marketing, Sales, Strategic Marketing.

P: Subject to approval of the Programme Director.

ENMG605-21W (C) Whole Year (S1 and S2)

ENMG 606 Strategic Management

12 Points 0.1000 EFTS

Strategic Management, Systems Engineering, Commercialisation, Operations Management.

P: Subject to approval of the Programme Director.

ENMG606-21W (C) Whole Year (S1 and S2)

ENMG 607 Special Topic

12 Points 0.1000 EFTS

P: Subject to approval of the Programme Director.

ENMG607-21W (C) Whole Year (S1 and S2)

ENMG 608 Special Topic

12 Points 0.1000 EFTS

P: Subject to approval of the Programme Director.

ENMG608-21W (C) Whole Year (S1 and S2)

ENMG 609 Special Topic

12 Points 0.1000 EFTS

P: Subject to approval of the Programme Director.

ENMG609-21W (C) Whole Year (S1 and S2)

ENMG 680 Management ME Project

48 Points 0.4000 EFTS

Project in Engineering Technology or Innovation Management or Commercialisation to be undertaken.

P: Subject to approval of the Programme Director.

ENMG680-21A (C) Starts Anytime

ENMG 790 Engineering Management PhD

120 Points 1.0000 EFTS

P: Subject to approval of the Programme Director.

ENMG790-21A (C) Starts Anytime

Part-time enrolment (0.65 EFTS) is available on approval. *From 1 January 2008, international students who are residing in New Zealand on a NZ Immigration Study Visa pay the Domestic Fee for this course. International fees apply for all other courses.

Engineering Mathematics

*School of Mathematics and Statistics***EMTH 118 Engineering Mathematics 1A**

15 Points 0.1250 EFTS

A first course in the methods and applications of engineering mathematics. Topics include calculus, linear algebra, and modelling techniques. This Course is designed for engineering students who have done well in NCEA Mathematics with calculus.

P: 1) MATH 101, or 2) NCEA 14 Credits (18 strongly recommended) at level 3 Mathematics (including the standards 'Apply differentiation methods in solving problems (91578)' and 'Apply integration methods in solving problems (91579)'), or 3) Cambridge: D at A level or an A at AS level in Mathematics, or 4) IB: 4 at HL or 5 at SL in Mathematics, or 5) approval of the Head of School based on alternative prior learning.

R: MATH 102, MATH 108, MATH 199

EMTH118-21S1 (C) Semester 1

EMTH118-21S2 (C) Semester 2

EMTH 119 Engineering Mathematics 1B

15 Points 0.1250 EFTS

A continuation of EMTH118. Topics covered include methods and Engineering applications of calculus, differential equations, and linear algebra, along with an introduction to probability. This course is a prerequisite for many courses in engineering mathematics and other subjects at 200 level.

P: EMTH 118

R: MATH 103, MATH 109, MATH 199

EMTH119-20SU2 (C) Summer (Nov 20)

EMTH 171 Mathematical Modelling and Computation

15 Points 0.1250 EFTS

An introduction to mathematical modelling and simulation via case studies using standard computer packages. Structured programming for mathematical problem solving.

P: 1) MATH 101, or 2) NCEA 14 Credits (18 strongly recommended) at level 3 Mathematics (including the standards 'Apply differentiation methods in solving problems (91578)' and 'Apply integration methods in solving problems (91579)'), or 3) Cambridge: D at A level or an A at AS level in Mathematics, or 4) IB: 4 at HL or 6 at SL in Mathematics, or 5) approval of the Head of School based on alternative prior learning.

C: EMTH 118 or EMTH 119 or MATH 103

R: MATH 170, MATH 171

RP: It is strongly recommended that students should have passed EMTH 118 or MATH 102 before taking EMTH 171. A prior or concurrent enrolment in EMTH 119 or MATH 103 is also recommended. If you are taking EMTH 171 concurrently with EMTH 118 or MATH 102, you are likely to experience difficulties and need to put in extra work.

EMTH171-20SU2 (C) Summer (Nov 20)

EMTH 210 Engineering Mathematics 2

15 Points 0.1250 EFTS

This course covers material in multivariable integral and differential calculus, linear algebra and statistics which is applicable to the engineering professions.

P: Subject to approval of the Dean of Engineering and Forestry

R: EMTH 202, EMTH 204, MATH 201, MATH 261, MATH 262, MATH 264

EMTH210-21S1 (C) Semester 1

EMTH 211 Engineering Linear Algebra and Statistics

15 Points 0.1250 EFTS

A linear/matrix algebra course using MATLAB, with engineering applications and a component of statistics for engineers.

P: Subject to approval of the Dean of Engineering and Forestry.

R: EMTH 203, EMTH 204, MATH 203, MATH 254, MATH 252, MATH 251

RP: EMTH 210

EMTH211-21S2 (C) Semester 2**EMTH 271 Mathematical Modelling and Computation 2**

15 Points 0.1250 EFTS

Use of the package MATLAB including matrix algebra, user-defined functions, surface plotting. Numerical methods including solutions of systems of linear equations, solution of ordinary differential equations and systems of equations, approximation techniques. Modelling projects and engineering applications.

P: (1) EMTH 171, MATH 170 or MATH 171; (2) Subject to approval of the Dean of Engineering and Forestry.

R: MATH 270, MATH 271

EMTH271-21S2 (C) Semester 2**EMTH 410 Special Topic in Engineering Mathematics**

15 Points 0.1250 EFTS

P: Subject to the approval of the Head of School.

EMTH410-21S1 (C) Semester 1**EMTH 411 Special Topic in Engineering Mathematics**

15 Points 0.1250 EFTS

P: Subject to approval of the Head of School.

EMTH411-21S2 (C) Semester 2**EMTH 413 Special Topic in Engineering Mathematics**

15 Points 0.1250 EFTS

P: Subject to approval of the Head of School.

EMTH413-21S1 (C) Semester 1**EMTH 414 Special Topic in Engineering Mathematics**

15 Points 0.1250 EFTS

P: Subject to approval of the Head of School.

EMTH414-21S1 (C) Semester 1**EMTH 415 Special Topic in Engineering Mathematics**

15 Points 0.1250 EFTS

P: Subject to approval of the Head of School.

R: MATH 363

EMTH415-21S2 (C) Semester 2**Tāura | Postgraduate***Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.***EMTH 600 Dynamical Systems**

15 Points 0.1250 EFTS

This course studies the fundamental concepts used in dynamical systems - the main tool for modelling the evolution of systems in discrete and continuous time.

P: Subject to approval of the Head of School.

EMTH600-21S2 (C) Semester 2**EMTH 604 Optimisation**

15 Points 0.1250 EFTS

Techniques for optimising smooth functions both with and without constraints present.

P: Subject to approval of the Head of School.

R: MATH 412

EMTH604-21S1 (C) Semester 1**EMTH 609 Special Topic in Engineering Mathematics**

15 Points 0.1250 EFTS

P: Subject to approval of the Head of School.

EMTH609-21S1 (C) Semester 1**EMTH 610 Special Topic in Engineering Mathematics**

15 Points 0.1250 EFTS

P: Subject to the approval of the Head of School.

EMTH610-21S2 (C) Semester 2**EMTH 675 Independent Course of Study**

15 Points 0.1250 EFTS

P: Subject to approval of the Head of School.

EMTH675-21S1 (C) Semester 1**EMTH675-21S2 (C) Semester 2****English***School of Humanities and Creative Arts***ENGL 102 Great Works**

15 Points 0.1250 EFTS

This course introduces students to university-level English by exploring in depth a sequence of works that have earned the label 'great' for some or all of the following reasons: because of their enduring, wide and deep cultural influence; because of the originality of their creative conception; because of the power of their language; because of the power and appeal of the stories they tell or the characters or images they contain.

ENGL102-21S1 (C) Semester 1**ENGL 103 The Outsider**

15 Points 0.1250 EFTS

However you think about the outsider - as artist, as outlaw or anarchist, as hero or scapegoat, as criminal or critic - it is clear that this figure is a constant in the study of literature. In this course we shall investigate the way the figure of the outsider has been represented in the traditions of American and New Zealand literature. Furthermore, we will bring to bear on this figure three key critical contexts: romanticism, modernism and post-colonialism.

ENGL103-21S2 (C) Semester 2**ENGL 117 Writing for Academic Success**

15 Points 0.1250 EFTS

Writing for Academic Success fosters the capacity for analytical thought about texts and language. The course also provides training in the writing of clear and effective prose, inculcates awareness of crucial structural and rhetorical features of expository writing, and encourages the application of that awareness to writing in a range of academic and professional contexts.

R: WRIT 101

ENGL117-21S1 (C) Semester 1**ENGL117-21S2 (C) Semester 2****ENGL 118 Creative Writing: Skills, Techniques and Strategies**

15 Points 0.1250 EFTS

This course provides a thorough grounding in the skills, techniques and tricks a writer needs to transform ideas and material into art. Guided exercises will develop students' perception, observation and research skills. The study of selected poetry, song lyrics and monologues will provide an understanding of fundamental techniques and approaches, as well as inspiration for students' own writing.

ENGL118-21S1 (C) Semester 1**WRIT 101 Writing for Academic Success**

15 Points 0.1250 EFTS

Writing for Academic Success fosters the capacity for analytical thought about texts and language. The course also provides training in the writing of clear and effective prose, inculcates awareness of crucial structural and rhetorical features of expository writing, and encourages the application of that awareness to writing in a range of academic and professional contexts.

R: ENGL 117

WRIT101-21S1 (C) Semester 1**WRIT101-21S2 (C) Semester 2****ENGL 202 Rebels, Devils and Cannibals: Literature and the Origins of Modernity**

15 Points 0.1250 EFTS

Examining a range of literary texts in English from the late sixteenth to the early eighteenth centuries, ENGL202/302 focuses on how the chosen works represent and are shaped by the first glimmerings of modern forms of culture and consciousness.

P: Any 15 points at 100 level from ENGL, or any 60 points at 100 level from the Schedule V of the BA.

R: ENGL 302

ENGL202-21S1 (C) Semester 1

ENGL 206 Science, Technology and Literature

15 Points 0.1250 EFTS

This course will particularly concentrate on the last two centuries of intersections between science, technology and literature, assaying major trends and preoccupations present in a range of texts and theories. Within a general examination of literature's engagements, the development of science fiction forms and concerns will be considered, especially because of the way that the genre often speculates the fears and desires of its time onto both futuristic settings and "alternate realities". Students will be expected to read a range of key material, including a small selection of novels, some short fiction, theoretical writings and visual texts.

P: Any 15 points at 100 level from ENGL, or any 60 points at 100 level from the Schedule V of the BA.

R: ENGL 306

ENGL206-21S2 (C) Semester 2

ENGL206-21S2 (D) Semester 2

ENGL 213 Children's Classics: Popular Children's Texts and their Representation on Film

15 Points 0.1250 EFTS

Children's Classics teaches the genre-specific nature of children's literature, its socio-historical contexts, and the significance of its re-readings as film. It introduces a selection of enduring children's texts, illustrating the importance to literary production of changing cultural context, demonstrating the importance of intertextuality in children's literature and how texts change when filmed, and promotes the skills of reading and writing.

P: Any 15 points at 100 level from ENGL, or any 60 points at 100 level from the Schedule V of the BA.

R: CINE 224

EQ: CINE 224

ENGL213-21S2 (C) Semester 2

ENGL213-21S2 (D) Semester 2

ENGL 220 Creative Writing: Short Fiction

15 Points 0.1250 EFTS

This course gives instruction and advice on the writing of short fiction, using a wide range of examples to illustrate the variety of forms, methods, and themes that may be used by the professional writer. Emphasis is given to the variety of genres available and the range of different readerships involved.

P: Any 15 points at 100 level from ENGL, or any 60 points at 100 level from the Schedule V of the BA.

ENGL220-21S2 (C) Semester 2

ENGL 232 Cultural Politics/Cultural Activism

15 Points 0.1250 EFTS

The course considers the strategic roles that culture can play in influencing political and social change, studying a wide variety of cultural texts and practices.

P: Any 15 points at 100 level from CULT or ENGL, or any 60 points at 100 level from the Schedule V of the BA.

R: CULT 202

EQ: CULT 202

ENGL232-21S1 (C) Semester 1

ENGL 238 Creative Writing for Screen

15 Points 0.1250 EFTS

The objective of the course is to combine the development of students' creative writing with the practical skills and dramaturgic techniques of writing for film.

P: Any 15 points at 100 level from CINE or ENGL, or any 60 points at 100 level from the Schedule V of the BA.

R: ENGL 234, CINE 210

EQ: CINE 210

ENGL238-21SU1 (C) Summer (Jan 21)

ENGL 243 From Bambi to Kong: The Animal in Popular Culture

15 Points 0.1250 EFTS

This course provides an introduction to human-animal studies through an analysis of cinematic representations of animals and the environment across horror and science fiction genres, animation, comedy and documentary.

P: Any 15 points at 100 level from CULT or ENGL, or any 60 points at 100 level from the Schedule V of the BA.

R: AMST 236, CULT 206, GEND 213, AMST 331, GEND 311, and ENGL 349

EQ: CULT 206

ENGL243-21S1 (C) Semester 1

ENGL243-21S1 (D) Semester 1

ENGL 252 Crime Stories

15 Points 0.1250 EFTS

The course addresses the usefulness and range of the crime genre as an appropriate focus for the acquisition of the skills (in research, critical analysis, and written expression) peculiar to English studies, as well as a form of social and political critique. It will particularly concentrate on the last two centuries of the representations of crime, detection, confession, and punishments, assaying major trends and preoccupations present in a range of texts and theories. Within a

general contextual examination of engagements between these facets, the development of genre forms and concerns will be considered, especially because the genre often speculates the fears and desires of its time in ways that likewise shape wider perceptions of crime and punishment. Students will be expected to read a range of key material, including a small selection of novels, some short fiction, theoretical writings and visual texts that should represent differences and similarities in representation and subject choice that writers and directors negotiate.

P: Any 15 points at 100 level from CULT or ENGL, or any 60 points at 100 level from the Schedule V of the BA.

R: ENGL 352; CULT 252; CULT 352

EQ: CULT 252

ENGL252-21S2 (C) Semester 2

ENGL 302 Rebels, Devils and Cannibals: Literature and the Origins of Modernity

30 Points 0.2500 EFTS

Examining a range of literary texts in English from the late sixteenth to the early eighteenth centuries, ENGL202/302 focuses on how the chosen works represent and are shaped by the first glimmerings of modern forms of culture and consciousness.

P: Any 30 points at 200 level from ENGL, or any 60 points at 200 level from the Schedule V of the BA.

R: ENGL 202

ENGL302-21S1 (C) Semester 1

ENGL 305 European Novels and Film Adaptations

30 Points 0.2500 EFTS

A study of important European novels and their film adaptations.

P: Any 30 points at 200 level from CINE, ENGL, EURA, or RUSS, or any 60 points at 200 level from the Schedule V of the BA.

R: EULC 204, EULC 304, EURA 204, EURA 304, CINE 214, RUSS 215, RUSS 216

EQ: EURA 304

ENGL305-21S2 (C) Semester 2

ENGL 306 Science, Technology and Literature

30 Points 0.2500 EFTS

This course will particularly concentrate on the last two centuries of intersections between science, technology and literature, assaying major trends and preoccupations present in a range of texts and theories. Within a general examination of literature's engagements, the development of science fiction forms and concerns will be considered, especially because of the way that the genre often speculates the fears and desires of its time onto both futuristic settings and "alternate realities". Students will be expected to read a range of key material, including a small selection of novels, some short fiction, theoretical writings and visual texts.

P: Any 30 points at 200 level from ENGL, or any 60 points at 200 level from the Schedule V of the BA.

R: ENGL 206

ENGL306-21S2 (C) Semester 2

ENGL306-21S2 (D) Semester 2

ENGL 315 The Twentieth Century Novel

30 Points 0.2500 EFTS

A comparative study of eight novels in English that reflect or have helped to shape our sense of what Isaiah Berlin called "this most terrible century in Western history". The course will examine the notion that the breakdown of families, hierarchies and nineteenth century imperial certainties contributed to the proliferation of parodic, subversive, and dystopian novels as the twentieth century progressed.

P: Any 30 points at 200 level from ENGL, or any 60 points at 200 level from the Schedule V of the BA.

ENGL315-21S1 (C) Semester 1

ENGL 318 Reading Animals: Beast Fables to Graphic Novels

30 Points 0.2500 EFTS

This course explores the role of imagery and narrative in constituting historical and contemporary conceptions of 'animality' and speciesism across a range of texts and media (including bestiaries, folklore and mythology; popular cooking shows and 'foodie' books; wildlife documentaries; contemporary and activist art; science fiction and graphic novels; and animal biographies).

P: Any 30 points at 200 level from CULT or ENGL, or any 60 points at 200 level from the Schedule V of the BA.

R: CULT 335

EQ: CULT 335

ENGL318-21S2 (C) Semester 2

ENGL 332 Sexualities in Culture

30 Points 0.2500 EFTS

This course analyses representations and models of 'normal' and 'abnormal' sexuality as these occur in sexology, psychiatry, self-help psychology, cinema and popular culture, and queer activism.

P: Any 30 points at 200 level from CULT or ENGL, or any 60 points at 200 level from the Schedule V of the BA.

R: AMST 332, CULT 303, GEND 307, GEND 211

EQ: CULT 303

ENGL332-21S1 (C) Semester 1

ENGL 352 Crime Stories

30 Points

0.2500 EFTS

The course addresses the usefulness and range of the crime genre as an appropriate focus for the acquisition of the skills (in research, critical analysis, and written expression) peculiar to English studies, as well as a form of social and political critique. It will particularly concentrate on the last two centuries of the representations of crime, detection, confession, and punishments, assaying major trends and preoccupations present in a range of texts and theories. Within a general contextual examination of engagements between these facets, the development of genre forms and concerns will be considered, especially because the genre often speculates the fears and desires of its time in ways that likewise shape wider perceptions of crime and punishment. Students will be expected to read a range of key material, including a small selection of novels, some short fiction, theoretical writings and visual texts that should represent differences and similarities in representation and subject choice that writers and directors negotiate.

P: Any 30 points at 200 level from CULT or ENGL, or any 60 points at 200 level from the Schedule V of the BA.

R: ENGL 252; CULT 252; CULT 352

ENGL352-21S2 (C) Semester 2

PACE 395 Internship

30 Points

0.2500 EFTS

What can you do with your major? With your degree? The purpose of the internship course is to explore both the ideological and practical assumptions guiding this question. The course is designed to be a critical, theoretical and "real-world" examination of the practices and ideologies inherent in both community and business organisations. You will apply the analytical skills acquired through your major, and through class seminars and readings, to a project designed by a local company or community group. Please check out the website for further information and specific project descriptions: www.arts.canterbury.ac.nz/internships

P: 150 points, special application and interview, and permission of the Internship Director.

R: ARTS 395

EQ: ARTS 395

PACE395-20SU2 (C) Summer (Nov 20)

PACE395-21A (C) Starts Anytime

PACE395-21S1 (C) Semester 1

PACE395-21S2 (C) Semester 2

Limited entry. See limitation of entry regulations. A student will be selected for a specific project. Only students accepted for projects will be allowed into the course. Please go to <http://www.arts.canterbury.ac.nz/internships> for more information.

Tāura | Postgraduate

Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.

ENGL 411 Intersectionalities: Humans, Animals and Otherness

30 Points

0.2500 EFTS

In recent years, scholars in the Humanities have broadened out from a narrow focus on knowledge about "the human" and begun to investigate wider aspects of the nonhuman material world - especially the relationships between human culture, animals, environments and ecologies. These tendencies - variously labeled Ecocriticism, Zoöcriticism, Anthrozoology and Human-Animal Studies - are now generating some of the most vigorous and compelling work by researchers in Humanities disciplines. ENGL411 offers an in-depth examination of key areas of this new interdisciplinary field.

P: Subject to approval of the Head of Department.

R: CULT 418

EQ: CULT 418

ENGL411-21S2 (C) Semester 2

ENGL 412 'A Small Good Thing': The Short Story in the Old World and the New

30 Points

0.2500 EFTS

The first theorist of the short story, Edgar Allan Poe, famously defined the form as something one might peruse at a single sitting. Like a poem, thought Poe, the story ought to achieve a 'unity of effect or impression', a kind of transient but intense excitement. Henry James saw in the form's brevity the 'science of control'; and while some readers enthused about the form's commitment to the moment, the event, the epiphany, others saw only a symptom of cultural fragmentation. This course examines the history and characteristics of the short story as it has been developed in the European and American traditions. More specifically, the course focuses on the relationship of the short story to some of the most persuasive ideas of modernity. Students will have an opportunity to read and place in context such greats of the form as Anton Chekhov, Mark Twain, Nikolai Gogol, Poe, Flannery O'Connor, Ernest Hemingway, Raymond Carver, Alice Munro and David Foster Wallace. As the course progresses we will make our way through movements such as romanticism, modernism and postmodernism - all of which define themselves in relation to modernity - concluding with a selection of some of the most exciting new writers working in America.

P: Subject to approval of the Head of Department.

ENGL412-21S1 (C) Semester 1

ENGL 442 Directed Reading and Writing

30 Points

0.2500 EFTS

English 442 provides an opportunity for BA(Honours) and first-year MA students to study areas of interest not otherwise available as 400-level courses. Students work independently under the direction of an academic staff member. They are required to read prescribed primary and

secondary materials, to undertake assigned research tasks, and to produce two or more essays or other written exercises (with a total length of about 10,000 words). Interested students must contact the Supervisor of Honours Students well in advance of the start of semester.

P: Subject to approval of the Head of Department.

ENGL442-21S1 (C) Semester 1

ENGL442-21S2 (C) Semester 2

ENGL 445 The Essay Film

30 Points

0.2500 EFTS

This course studies the essay film, a hybrid genre which troubles conventional distinctions between documentary and fiction, as the model for a new mode of critical practice.

P: Subject to approval of the Head of Department.

ENGL445-21S1 (C) Semester 1

ENGL 480 Research Essay

30 Points

0.2500 EFTS

P: Subject to approval of the Head of Department.

ENGL480-21S1 (C) Semester 1

ENGL480-21S2 (C) Semester 2

ENGL 481 Creative Writing Project

30 Points

0.2500 EFTS

The Creative Writing Project provides an opportunity for B.A. (Honours) and first-year M.A. students, particularly those who have completed some or all of the undergraduate creative writing pathway, to undertake an extended creative project under supervision. This may take the form of a long story, a group of stories, a collection of poems, a short play, or another form to be negotiated.

P: Subject to approval of the Head of Department.

ENGL481-21S2 (C) Semester 2

ENGL 650 MA Dissertation

60 Points

0.5000 EFTS

MA Dissertation

P: Subject to the approval of the Head of Department .

ENGL650-21A (C) Starts Anytime

ENGL650-21S1 (C) Semester 1

ENGL650-21S2 (C) Semester 2

ENGL 690 MA Thesis

120 Points

1.0000 EFTS

P: Subject to approval of the Head of Department.

ENGL690-21A (C) Starts Anytime

Part-time enrolment (0.65 EFTS) is available on approval.

ENGL 790 English PhD

120 Points

1.0000 EFTS

P: Subject to approval of the Head of Department.

ENGL790-21A (C) Starts Anytime

*Part-time enrolment (0.65 EFTS) is available on approval. *From 1 January 2008, international students who are residing in New Zealand on a NZ Immigration Study Visa pay the Domestic Fee for this course. International fees apply for all other courses.*

English Language**School of Languages, Social and Political Sciences****ENLA 101 The English Language**

15 Points

0.1250 EFTS

This course introduces students to the study of the English language, its words, sounds and sentences. It also introduces the conceptual and analytical tools which linguists use to understand how languages are constructed.

R: ENGL 123, ENGL 112, LING 111, LING 101

EQ: LING 101

ENLA101-20SU2 (D) Summer (Nov 20)

ENLA101-21S1 (C) Semester 1

ENLA 102 Language and Society in New Zealand and Beyond

15 Points

0.1250 EFTS

What do babies know about language when they're born? And how do our experiences as we get older affect both how we use language and what we think about other people's language behaviour? Why, for example, do people think some languages, or some dialects, are 'better' than

others? And is there any truth behind such beliefs? In this course we consider a range of research from the field of linguistics that addresses these and other questions. The role of language experience will emerge as a recurrent theme: the experience that the infant has with a particular language; how our early experience with language affects how we speak and how we listen, and how our beliefs about language are created and maintained in connection to other experiences in our social lives.

R: LING 102

EQ: LING 102

ENLA102-21S2 (C)

Semester 2

ENLA 310 Linguistic Research and New Zealand English

30 Points

0.2500 EFTS

The entire history of New Zealand English can be tracked in the Origin of New Zealand English corpus (ONZE), housed at the University of Canterbury. Using this extensive collection of spoken language, we can compare the accents of the very earliest New Zealand born settlers to those of contemporary speakers, to examine how New Zealand English has changed. This allows us to answer interesting questions not only about New Zealand English but also about language change in general. This course has a practical focus which will provide hands-on experience in the analysis of New Zealand English. Students are trained in sociolinguistic methodology and in how to use the ONZE corpus, and are given the opportunity to conduct their own piece of research on language variation and/or change in New Zealand.

P: LING 206 or LING 207 or LING 210 or LING 215 or LING 216 or LING 217 or ENLA 210

R: LING 310

EQ: LING 310

ENLA310-21S2 (C)

Semester 2

ENLA 320 History of English

30 Points

0.2500 EFTS

This course explores language variation and change, and illustrates these notions through a survey of the way in which English has varied and changed during its recorded history. It will look both at the social history of the language and the linguistic changes that have taken place over the last 1400 years.

P: LING 101 or ENLA 101.

R: LING 320, LING 220

RP: Any 200 level LING or ENLA course

EQ: LING 320

ENLA320-21S1 (C)

Semester 1

ENLA320-21S1 (D)

Semester 1

PACE 395 Internship

30 Points

0.2500 EFTS

What can you do with your major? With your degree? The purpose of the internship course is to explore both the ideological and practical assumptions guiding this question. The course is designed to be a critical, theoretical and "real-world" examination of the practices and ideologies inherent in both community and business organisations. You will apply the analytical skills acquired through your major, and through class seminars and readings, to a project designed by a local company or community group. Please check out the website for further information and specific project descriptions: www.arts.canterbury.ac.nz/internships

P: 150 points, special application and interview, and permission of the Internship Director.

R: ARTS 395

EQ: ARTS 395

PACE395-20SU2 (C)

Summer (Nov 20)

PACE395-21A (C)

Starts Anytime

PACE395-21S1 (C)

Semester 1

PACE395-21S2 (C)

Semester 2

Limited entry. See limitation of entry regulations. A student will be selected for a specific project. Only students accepted for projects will be allowed into the course. Please go to <http://www.arts.canterbury.ac.nz/internships> for more information.

Environmental Science

School of Physical and Chemical Sciences

ENVR 101 Introduction to Environmental Science

15 Points

0.1250 EFTS

This course offers a general introduction to environmental science in an interdisciplinary context. The ENVR 101 course aims to build a knowledge platform and exposes students to the environmental problems and solutions of the modern era. Using an integrated approach across the chemical, biological, cultural and values/ethics aspects of environmental science, students will consider the problems and solutions across key topics including: Feeding the planet (Kai whenua and Kai Moana), Sustainable resource use and waste management, powering the planet, human health and environment, sustainable cities, and sustainable tourism. Students will learn through a combination of lectures and tutorials/workshops. Assessment will be via assignment, on-line quizzes and an exam.

ENVR101-21S2 (C)

Semester 2

ENVR 201 Environmental Science and Practice

15 Points

0.1250 EFTS

The course builds on the environmental science knowledge taught in ENVR101 using two core themes of waste disposal and agriculture and the environment. It also teaches basic field

and laboratory skills required for Environmental Science. The course content will include both theoretical and practical aspects of working as an Environmental Scientist, including working in teams, health and safety, designing sampling programmes, and presentation of data.

P: ENVR 101

ENVR201-21S2 (C)

Semester 2

ENVR 301 Environmental Science: Cities and Coasts

30 Points

0.2500 EFTS

ENVR301 advances students' knowledge in environmental science focussing on coastal and urban areas. This course also develops professional skills required for environmental science including information management, working with communities, science communication, legal requirements and ethics.

P: ENVR 201

ENVR301-21S1 (C)

Semester 1

ENVR 303 Special Topic: Environmental Toxicology

15 Points

0.1250 EFTS

The course provides an overview of the frameworks and methodologies used to assess environmental effects and risks, including environmental impact assessments, environmental risk assessment, and the cultural health index. Students will undertake an assessment of environmental effects as part of this course. Risk communication is an important skill for Environmental Scientists. Through this course students will develop skills for effective risk communication to diverse audiences.

P: CHEM 247, BIOL 274

ENVR303-21S2 (C)

Semester 2

ENVR 356 Field-focused Research Methods in Environmental Science

30 Points

0.2500 EFTS

This course links field-based learning and/or data collection with instruction in research methods and tutorials dedicated to working in research teams analysing, processing and interpreting data in the broad subject area of environmental science.

P: Enrolment in the Frontiers Abroad programme and Head of Department approval.

R: GEOL 356. This course is not open to non-Frontiers Abroad students

RP: Completion of course(s) at home institution in the broader field of Earth Systems Science and Environmental Science and Studies.

ENVR356-21X (C)

08 Feb 2021 - 20 June 2021

ENVR356-21S2 (C)

Semester 2

Limited entry. See limitation of entry regulations.

Tāura | Postgraduate

Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.

ENVR 410 Concepts and Principles of Environmental Science

15 Points

0.1250 EFTS

Basic concepts and principles in environmental science.

P: Subject to approval of the Head of Department.

ENVR410-21S1 (C)

Semester 1

ENVR 411 Case Studies in Environmental Science

15 Points

0.1250 EFTS

Application of basic concepts in environmental science to understanding land, air and water processes, their interactions, and their management.

P: Subject to approval of the Head of Department.

ENVR411-21S2 (C)

Semester 2

ENVR 414 Current Issues in Environmental Chemistry

15 Points

0.1250 EFTS

This course comprises current issues in environmental chemistry. Examples include emerging contaminants, stable isotopes as tracers, air quality, global climate change, drinking water, contaminated land, radiochemistry, acid mine drainage and toxicology.

P: CHEM 324 or ENCN 281 or equivalent study

ENVR414-21S2 (C)

Semester 2

ENVR 480 Research Project

30 Points

0.2500 EFTS

A written report on a research project on a topic in interdisciplinary environmental science approved by the Co-ordinator. The report must be completed and presented to the Registrar no later than 1 November in the year in which the student presents the written courses.

P: Subject to approval of the Head of Department.

ENVR480-21W (C)

Whole Year (S1 and S2)

ENVR480-21CY (C)

Cross Year

ENVR 690 MSc Thesis

120 Points 1.0000 EFTS

P: Subject to approval of the Head of Department.

ENVR690-21A (C) Starts Anytime*Part-time enrolment (0.65 EFTS) is available on approval.***ENVR 790 Environmental Science PhD**

120 Points 1.0000 EFTS

P: Subject to approval of the Head of Department.

ENVR790-21A (C) Starts Anytime*Part-time enrolment (0.65 EFTS) is available on approval. "From 1 January 2008, international students who are residing in New Zealand on a NZ Immigration Study Visa pay the Domestic Fee for this course. International fees apply for all other courses."*

European and European Union Studies

School of Language, Social and Political Sciences

EURA 101 Global Europe

15 Points 0.1250 EFTS

What is the European Union? How important is it in Global Affairs? Why is the EU expanding? What lead to the BREXIT vote and what influence will it have? Through the use of traditional and online teaching methods, this course introduces students to the identity, structure and function of the EU, its key challenges and its role and impact on the world, particularly in the Asia-Pacific region.

R: EURO 101

EURA101-21S1 (C) Semester 1**EURA101-21S1 (D) Semester 1****EURA 201 European Identity and Culture: Multicultural Societies of Europe and the European Union**

15 Points 0.1250 EFTS

This course looks at the social and cultural impacts of European integration. Employing a multidisciplinary perspective, this course aims to answer a set of questions: What are the key issues confronting the European Union (EU) and its citizens? How do current issues facing the EU - immigration multi-cultural and multi-lingual society, religious and political diversity - influence the motivation behind integration? The course examines the notions of Europe and the EU and the roles of individual, national and supranational identities in the EU's interactions with its citizens and the world. There is an emphasis on interactive discussions, small group activities and access to experts in the field.

P: Any 15 points at 100 level from EURA, or any 60 points at 100 level from the Schedule V of the BA.

R: EURA 301, EURO 201, EURO 301

EURA201-21S2 (C) Semester 2**EURA201-21S2 (D) Semester 2****EURA 204 European Novels and Film Adaptations**

15 Points 0.1250 EFTS

A study of important European novels and their film adaptations.

P: Any 15 points at 100 level from CINE, ENGL, EURA, or RUSS, or any 60 points at 100 level from the Schedule V of the BA.

R: CINE 214, ENGL 305, EULC 204, EULC 304, EURA 304, RUSS 215, RUSS 216

EQ: CINE 214

EURA204-21S2 (C) Semester 2**EURA 210 European Integration from Community to Union**

15 Points 0.1250 EFTS

The course is designed to introduce students to the process of European Integration that has transformed post-1945 Europe and seen the European Union emerge as a new global power. The course draws on an interdisciplinary approach and is focused on policy analysis and case studies.

P: Any 15 points at 100 level from EURA or GEOG, or any 60 points at 100 level from the Schedule V of the BA.

R: EURA 310, EURO 210, EURO 310, GEOG 321

EURA210-21S1 (C) Semester 1**EURA 224 Democratic and Economic Evolution of Europe**

15 Points 0.1250 EFTS

This course is designed to provide sufficient knowledge and understanding of recent economic developments and democratisation processes in Europe as a whole and within the EU as an institution. It will examine the institutional and policy changes that have happened since the European "reunification" in 1989, but significant attention will be paid to the economic and political history of the continent also.

P: Any 15 points at 100 level from EURA or POLS, or any 60 points at 100 level from the Schedule V of the BA.

R: POLS 224, EURO 224, EURO 324, EURA 324

EQ: POLS 224

EURA224-20SU2 (C) Summer (Nov 20)**EURA224-21S1 (C) Semester 1****EURA 226 The Rise and Fall of Communism in Central and Eastern Europe, 1944 - 1991**

15 Points 0.1250 EFTS

The end of the Cold War and of Eastern European communism in 1989-1991 did not mean the loss of global interest in developments in the former communist countries of Central and Eastern Europe. On the contrary, the recent history of these countries, the period of their post-communist transition to political democracy and a market economy, has been marked with new instabilities, crises and wars which have had serious implications for global trends. This course is designed to provide a broad background to an understanding of the political, socio-economic, and cultural developments in the former communist countries of Central and Eastern Europe as an essential prerequisite to understanding the modern world.

P: Any 15 points at 100 level from EURA or HIST, or any 60 points at 100 level from the Schedule V of the BA.

R: EURA 326, EURO 226, EURO 326, HIST 269, HIST 329

EQ: HIST 269

EURA226-21S2 (C) Semester 2**EURA 234 Special Topic: European Foreign and Security Policy in the 21st Century**

15 Points 0.1250 EFTS

This course focuses on how the EU and its member states are adapting to an international role in the 21st century. The course will examine the institutions of EU foreign and security policy, the creation of the Common Security and Defence Policy (CSDP) and the increasing number of civilian and military crisis management operations. The course assesses the EU's emergent strategy and strategic culture and strands of its foreign policy in action. The course concludes with an assessment of institutional changes as a result of the Lisbon Treaty, in particular the creation of the European External Action Service (EEAS) that have further raised expectations as to the EU's external role.

P: Any 15 points at 100-level from EURA or POLS, OR any 60 points at 100-level from Schedule V of the BA.

R: EURO 234, and POLS 234 after 2013

EQ: POLS 234 after 2013

EURA234-21S1 (C) Semester 1**EURA 235 Tsardom to Empire: Russian History 1480 to 1917**

15 Points 0.1250 EFTS

This course explores aspects of social, political, economic, cultural, religious, and intellectual history of Russia prior to 1917, with a particular emphasis on the autocratic tradition as developed from 1480 onwards. The course also investigates the making of the Russian Empire while also examining ways in which political forces unique to Russia shaped the country's cultural specificity in the European context.

P: Any 15 points at 100 level from EURA, HIST, or RUSS, or any 60 points at 100 level from the Schedule V of the BA.

R: HIST 138, RUSS 111, HIST 235, HIST 335, RUSS 235, RUSS 335, EURA 235, EURA 335

RP: HIST 136 or HIST 137 or HIST 133

EQ: RUSS 235, HIST 235

EURA235-21S2 (C) Semester 2**EURA 301 European Identity and Culture: Multicultural Societies of Europe and the European Union**

30 Points 0.2500 EFTS

This course looks at the social and cultural impacts of European integration. Employing a multidisciplinary perspective, this course aims to answer a set of questions: What are the key issues confronting the European Union (EU) and its citizens? How do current issues facing the EU - immigration multi-cultural and multi-lingual society, religious and political diversity - influence the motivation behind integration? The course examines the notions of Europe and the EU and the roles of individual, national and supranational identities in the EU's interactions with its citizens and the world. There is an emphasis on interactive discussions, small group activities and access to experts in the field.

P: Any 30 points at 200 level from EURA, or any 60 points at 200 level from the Schedule V of the BA.

R: EURA 201, EURO 201, EURO 301

EURA301-21S2 (C) Semester 2**EURA301-21S2 (D) Semester 2****EURA 304 European Novels and Film Adaptations**

30 Points 0.2500 EFTS

A study of important European novels and their film adaptations.

P: Any 30 points at 200 level from CINE, ENGL, EURA, or RUSS, or any 60 points at 200 level from the Schedule V of the BA.

R: ENGL 305, EURA 204, EULC 204, EULC 304, RUSS 215, RUSS 216, CINE 214

EQ: ENGL 305

EURA304-21S2 (C) Semester 2**EURA 310 European Integration from Community to Union**

30 Points 0.2500 EFTS

The course is designed to introduce students to the process of European Integration that has transformed post-1945 Europe and seen the European Union emerge as a new global power. The course draws on an interdisciplinary approach and is focused on policy analysis and case studies.

P: Any 30 points at 200 level from EURA or GEOG, or any 60 points at 200 level from the Schedule V of the BA.

R: EURA 210, EURO 210, EURO 310, GEOG 320 (prior to 2005), GEOG 321 (from 2005)

EQ: GEOG 321

EURA310-21S1 (C) Semester 1

EURA 324 Democratic and Economic Evolution of Europe

30 Points 0.2500 EFTS

This course is designed to provide sufficient knowledge and understanding of recent economic developments and democratisation processes in Europe as a whole and within the EU as an institution. It will examine the institutional and policy changes that have happened since the European "reunification" in 1989, but significant attention will be paid to the economic and political history of the continent also.

P: Any 30 points at 200 level from EURA or POLS, or any 60 points at 200 level from the Schedule V of the BA.

R: EURO 224, EURO 324, EURA 224, POLS 224

EURA324-21S1 (C) Semester 1

EURA 326 The Rise and Fall of Communism in Central and Eastern Europe, 1944 - 1991

30 Points 0.2500 EFTS

The end of the Cold War and of Eastern European communism in 1989-1991 did not mean the loss of global interest in developments in the former communist countries of Central and Eastern Europe. On the contrary, the recent history of these countries, the period of their post-communist transition to political democracy and a market economy, has been marked with new instabilities, crises and wars which have had serious implications for global trends. This course is designed to provide a broad background to an understanding of the political, socio-economic, and cultural developments in the former communist countries of Central and Eastern Europe as an essential prerequisite to understanding the modern world.

P: Any 30 points at 200 level from EURA or HIST, or any 60 points at 200 level from the Schedule V of the BA.

R: EURA 226, EURO 226, EURO 326, HIST 269, HIST 329

EQ: HIST 329

EURA326-21S2 (C) Semester 2

EURA 335 Tsardom to Empire: Russian History 1480 to 1917

30 Points 0.2500 EFTS

This course explores aspects of social, political, economic, cultural, religious, and intellectual history of Russia prior to 1917, with a particular emphasis on the autocratic tradition as developed from 1480 onwards. The course also investigates the making of the Russian Empire while also examining ways in which political forces unique to Russia shaped the country's cultural specificity in the European context.

P: Any 30 points at 200 level from EURA, HIST, or RUSS, or any 60 points at 200 level from the Schedule V of the BA.

R: HIST 138, HIST 235, HIST 335, RUSS 111, RUSS 235, RUSS 335, EURA 235, EURA 335

EQ: RUSS 335, HIST 335

EURA335-21S2 (C) Semester 2

EURA 339 The Economics of European Integration

15 Points 0.1250 EFTS

Since the Treaty of Rome in 1957, the European Union (EU) has grown from a small customs union with six member states to become the largest integrated market in the world, with 28 members, more than 500 million citizens and a combined gross domestic product larger than that of the United States. This course provides an economic analysis of the processes and policies, which have driven Europe's economic and political integration, exploring the implications of a single market in which goods and services, labour and capital can move freely.

P: Any 30 points at 200 level from ECON or EURA, or any 60 points at 200 level from the Schedule V of the BA.

R: EURO 339, ECON 339.

RP: ENGL 117 or an essay-based course.

EQ: ECON 339

EURA339-21SU1 (D) Summer (Jan 21)

EURA339-21SU1 (C) Summer (Jan 21)

PACE 395 Internship

30 Points 0.2500 EFTS

What can you do with your major? With your degree? The purpose of the internship course is to explore both the ideological and practical assumptions guiding this question. The course is designed to be a critical, theoretical and "real-world" examination of the practices and ideologies inherent in both community and business organisations. You will apply the analytical skills acquired through your major, and through class seminars and readings, to a project designed by a local company or community group. Please check out the website for further information and specific project descriptions: www.arts.canterbury.ac.nz/internships

P: 150 points, special application and interview, and permission of the Internship Director.

R: ARTS 395

EQ: ARTS 395

PACE395-20SU2 (C) Summer (Nov 20)

PACE395-21A (C) Starts Anytime

PACE395-21S1 (C) Semester 1

PACE395-21S2 (C) Semester 2

Limited entry. See limitation of entry regulations. A student will be selected for a specific project. Only students accepted for projects will be allowed into the course. Please go to <http://www.arts.canterbury.ac.nz/internships> for more information.

Tāura | Postgraduate

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EURO 650 MA Dissertation

60 Points 0.5000 EFTS

MA Dissertation

P: Subject to approval of the Head of Department.

EURO650-21A (C) Starts Anytime

EURO650-21S1 (C) Semester 1

EURO650-21S2 (C) Semester 2

European Studies**National Centre for Research on Europe**

Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.

EURO 401 The Idea of Europe and European Integration

30 Points 0.2500 EFTS

The goal of this multidisciplinary course is to encompass the diversity of academic insights into the process of European integration, providing students with an appreciation for the historical context of integration and an understanding for the political, social, economic and cultural factors that influence the way in which the EU functions today. The course concentrates on Europe of the 21st century; however, some, earlier historical context is also provided where necessary. The course calls on the wide variety of recognized expertise existing in NZ and internationally.

P: Subject to approval of the NCRE Director.

EURO401-21CY (C) Cross Year

EURO 402 The EU in Europe and in the World: The EU's External Identities

15 Points 0.1250 EFTS

The EU is increasingly an international actor in trade negotiations, world security issues, development aid and environmental policy. The course questions how the rest of the world views the Union in these roles is juxtaposed with the way the EU sees itself as an international actor. This is a course where students can gain unique perspectives in what the EU means for the Asia-Pacific and wider world and look at the question of how outsiders define what Europe is and what it stands for.

P: Subject to approval of the NCRE Director.

R: EURO 402 before 2014

EURO402-21S2 (C) Semester 2

EURO 409 The EU and "Europeanisation" of Europe

15 Points 0.1250 EFTS

This course examines the importance of the EU as a promoter of peace, democracy and economic prosperity in the European continent and its neighbourhood. As an honours course, it strongly encourages individual student application of research through self-study methods and regular participation in seminar discussions.

P: Subject to approval of the NCRE Director.

EURO409-21S2 (C) Semester 2

EURO 448 Issues in Modern European History

30 Points 0.2500 EFTS

This course focuses on some of the most important and controversial debates in the historiography of modern Europe. Students will be encouraged to explore these debates in detail, to consider the historiographical context within which these debates have taken place, and to arrive at their own views based on their extensive research in primary and secondary sources.

P: Subject to approval of the NCRE Director.

R: HIST 449, DIPL 428

EQ: HIST 449, DIPL 428

EURO448-21S1 (C) Semester 1

EURO 457 European Foreign and Security Policy

15 Points 0.1250 EFTS

This course examines current European Union foreign policy activities which include peace and reconciliation; a growing security role for Europe in terms of an autonomous EU military capacity; and an international diplomatic role.

P: Subject to approval of the NCRE Director.

R: EURO 410, DIPL 426 before 2014, DIPL 420

EURO457-21S1 (C) Semester 1

EURO 458 EU Development Policy

15 Points 0.1250 EFTS

This course examines current European Union Development policy and addresses humanitarian and poverty initiatives, the implementation of the Millennium Development Goals, trade

Evolutionary Biology

preferences as well as the growing securitization of Development under the EEAS.

P: Subject to approval of the NCRE Director.

R: EURO 410, DIPL 426 before 2014, DIPL 421

EURO458-21S1 (C) Semester 1

EURO458-21S1 (D) Semester 1

EURO 479 Navigating Research: Research Training and Methods

15 Points 0.1250 EFTS

A course in research training and methods for European Union Studies.

P: Subject to approval of the NCRE Director.

R: EURO 480

EURO479-21S1 (D) Semester 1

EURO479-21S2 (C) Semester 2

EURO 480 Research Topic

30 Points 0.2500 EFTS

This core course in the EURO Honours programme will consist of two parts – the first semester will feature a course work in research training and methods and the second semester will cover more intensive individual research and writing of the Honours dissertation.

P: Subject to approval of the NCRE Director.

EURO480-21CY (C) Cross Year

EURO 482 European Studies Internship Course

15 Points 0.1250 EFTS

A professional internship placement.

P: Subject to approval of the NCRE Director.

EURO482-21A (C) Starts Anytime

EURO482-21S2 (C) Semester 2

EURO 690 MA Thesis

120 Points 1.0000 EFTS

P: Subject to approval of the NCRE Director.

EURO690-21A (C) Starts Anytime

Part-time enrolment (0.65 EFTS) is available on approval.

EURO 692 MEuro Thesis

90 Points 0.7500 EFTS

A research course.

C: EURO 479

EURO692-21A (C) Starts Anytime

EURO 790 European Studies PhD

120 Points 1.0000 EFTS

P: Subject to approval of the Head of Department.

EURO790-21A (C) Starts Anytime

*Part-time enrolment (0.65 EFTS) is available on approval. *From 1 January 2008, international students who are residing in New Zealand on a NZ Immigration Study Visa pay the Domestic Fee for this course. International fees apply for all other courses.*

Evolutionary Biology

School of Biological Sciences

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EVOL 480 Project

30 Points 0.2500 EFTS

A written report on a research project approved by the Head of School of Biological Sciences.

The report must be completed and presented by the due date in the year in which the student presents the courses selected from BIOL401 - BIOL493 (refer to degree schedule).

P: Entry is subject to the approval of Head of School

EVOL480-21W (C) Whole Year (S1 and S2)

EVOL 690 MSc Thesis

120 Points 1.0000 EFTS

P: Entry is subject to the approval of Head of School

EVOL690-21A (C) Starts Anytime

Part-time enrolment (0.65 EFTS) is available on approval.

EVOL 790 PhD Thesis

120 Points 1.0000 EFTS

P: Entry is subject to the approval of Head of School

EVOL790-21A (C) Starts Anytime

*Part-time enrolment (0.65 EFTS) is available on approval. *From 1 January 2008, international students who are residing in New Zealand on a NZ Immigration Study Visa pay the Domestic Fee for this course. International fees apply for all other courses.*

Film

School of Fine Arts

FILM 211 Film 2A

45 Points 0.3750 EFTS

Students will be introduced to developing technical competence in, and broad operational of, theoretical knowledge within the specialised studio discipline. Projects relating to the conventions and techniques of Film practice, participation in group meetings, critiques, reading groups and critical reflections, documentation of all work.

P: FINA 103, or subject to approval of the Head of the School of Fine Arts. Entry to this course is limited.

FILM211-21S1 (C) Semester 1

FILM 212 Film 2B

45 Points 0.3750 EFTS

Students will continue the development of technical competence in, and broad operational of, theoretical knowledge within the specialised studio discipline. Projects relating to the conventions and techniques of Film practice, participation in group meetings, critiques, reading groups and critical reflections, documentation of all work.

P: FILM 211, or subject to approval of the Head of the School of Fine Arts. Entry to this course is limited.

FILM212-21S2 (C) Semester 2

FILM 311 Film 3

90 Points 0.7500 EFTS

P: FILM 212

FILM311-21W (C) Whole Year (S1 and S2)

FILM 411 Film 4

90 Points 0.7500 EFTS

P: FILM 311

FILM411-21W (C) Whole Year (S1 and S2)

Tāura | Postgraduate

Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.

FILM 601 Film

120 Points 1.0000 EFTS

P: Subject to approval of the Head of School.

FILM601-21A (C) Starts Anytime

Finance

Department of Economics and Finance

FINC 101 Personal Finance

15 Points 0.1250 EFTS

Personal financial literacy and decision making, including consumption and investment, debt, insurance, retirement and estate planning.

FINC101-21SU1 (C) Summer (Jan 21)

FINC101-21S1 (C) Semester 1

FINC 201 Business Finance

15 Points 0.1250 EFTS

The core principles of the financial management of business firms.

P: (1) ACCT 102 or MATH 103; and (2) STAT 101; and (3) a further 30 points

R: FINC 202, AFIS 204

RP: Students without a mathematics background equivalent to NCEA Level 2 should pass MATH 101 before enrolling in this course.

EQ: AFIS 204

FINC201-20SU2 (D) Summer (Nov 20)

FINC 203 Financial Markets, Institutions and Instruments

15 Points 0.1250 EFTS

Description and analysis of the financial system, focusing on financial markets (domestic and international), financial asset trading mechanisms, market efficiency, institutions (intermediaries) and instruments (stocks, bonds, hybrid securities including derivatives).

P: (1) STAT 101; and (2) A further 45 points.

R: AFIS 214

EQ: AFIS 214

FINC203-21S1 (C) Semester 1**FINC 301 Corporate Finance Theory and Policy**

15 Points 0.1250 EFTS

The theoretical principles of corporate finance and their applications to business policy.

P: FINC 201

C: FINC 203

R: FINC 354, AFIS 304

FINC301-21S2 (C) Semester 2**FINC 305 Financial Modelling**

15 Points 0.1250 EFTS

The main purpose of this course is to combine a deeper understanding of selected topics in corporate finance and portfolio models with spreadsheet skills at an appropriate level for financial analysts. This course makes extensive use of EXCEL.

P: (1) FINC 201; and (2) MATH 101 or MATH 102 or MATH 199

C: FINC 203 or MATH 103

R: FINC 616

FINC305-21S1 (C) Semester 1

Limited entry. See limitation of entry regulations.

FINC 308 Applied Financial Analysis and Valuation

15 Points 0.1250 EFTS

The use and application of accounting information to financial problems.

P: FINC 201

C: FINC 203

R: FINC 394 and AFIS 314

FINC308-21S2 (C) Semester 2**FINC 311 Investments**

15 Points 0.1250 EFTS

The theoretical principles of investments and their applications to investment policy.

P: (1) FINC 201; and (2) MATH 101 or MATH 102 or MATH 199

C: FINC 203 or MATH 103

R: FINC 364, AFIS 314

FINC311-21S1 (C) Semester 1**FINC 312 Derivative Securities**

15 Points 0.1250 EFTS

An introduction to the use, analysis and pricing of derivative securities, including options, futures and swaps.

P: (1) FINC 201; and (2) MATH 101 or MATH 102 or MATH 199

C: FINC 203 or MATH 103

R: FINC 612

FINC312-21S1 (C) Semester 1**FINC 331 Financial Economics**

15 Points 0.1250 EFTS

The economics of finance, with applications to asset valuation, corporate finance, and portfolio management.

P: (1) ECON 207; and (2) FINC 201; and (3) MATH 102 or MATH 199

R: ECON 331

RP: FINC 205 or MATH 103

EQ: ECON 331

FINC331-21S2 (C) Semester 2**FINC 344 International Finance**

15 Points 0.1250 EFTS

This course provides an understanding of the fundamental concepts and issues in international finance. It develops a "tool-kit" of common approaches and applies it to many real-world examples in international finance. We cover topics such as the foreign exchange markets and exchange rate systems, balance of payments, international arbitrage and interest rate parity, exchange rate determination and forecasting, measuring and managing exchange rate risk, international debt and equity financing, currency derivatives, interest rate and currency swaps, and financial crises.

P: ECON 206 or FINC 201 or FINC 203

R: FINC 315, ECON 344, ECON 210

RP: 15 points in MATH or Year 13 Math with Calculus

EQ: ECON 344

FINC344-21S2 (C) Semester 2**FINC 390 Internship or Consultancy Project**

15 Points 0.1250 EFTS

An internship or consultancy project is an opportunity to experience a professional work environment. Internships or projects taken for credit are usually unpaid. You are expected to develop a good understanding of a sector, market or organisation. The work you submit will show an application of the tools, ideas or concepts of finance. You will be required to reflect critically on the requirements of transitioning from an academic to a work environment and the skills valued in a professional workplace. As these are finance placements, priority is given to finance majors.

P: (1) FINC 201 and FINC 203 (2) Subject to approval of the Head of Department

R: ECON 390, ARTS 395, PACE 395

FINC390-21S1 (C) Semester 1**FINC390-21S2 (C) Semester 2****Tāura | Postgraduate**

Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.

FINC 608 Applied Financial Analysis and Valuation

15 Points 0.1250 EFTS

The use and application of accounting information to financial problems.

P: Subject to approval of Head of Department

R: FINC 308

EQ: FINC 308

FINC608-21S2 (C) Semester 2**FINC 610 Studies in Capital Markets**

15 Points 0.1250 EFTS

Studies in Capital Markets

P: Subject to approval of the Head of Department.

FINC610-21S1 (C) Semester 1**FINC610-21S2 (C) Semester 2****FINC 612 Derivatives Securities**

15 Points 0.1250 EFTS

This course provides an introduction to financial derivative securities. The main focus of the course will be on derivatives such as forwards, futures, swaps and options. The purpose of this course is to equip students with knowledge about these products, i.e., how they are priced, valued, and how they can be used for arbitraging, speculation and hedging purposes.

P: (1) Subject to Approval in BCom(Hons) (Finance), MCom (Finance) or MAFE; and (2) FINC 201; and (3) FINC 203

R: FINC 312

FINC612-21S1 (C) Semester 1**FINC 613 Studies in Capital Markets II**

15 Points 0.1250 EFTS

P: Subject to approval of the Head of Department.

FINC613-21S1 (C) Semester 1**FINC613-21S2 (C) Semester 2****FINC 614 Investments**

15 Points 0.1250 EFTS

This course examines investments and portfolio management from both a theoretical and practical perspective. Emphasis is placed on the development of the skills and competencies required to succeed as an investment professional, especially those related to investment analysis and portfolio formation and management. Topics covered include portfolio and capital market theory, asset pricing, equity valuation, efficient markets theory, portfolio creation, and other aspects of portfolio management.

P: Subject to approval of Head of Department

R: FINC 311

EQ: FINC 311

FINC614-21S1 (C) Semester 1**FINC 616 Financial Modelling**

15 Points 0.1250 EFTS

Application of spreadsheet tools to financial decision-making and analysis

P: Subject to approval of the Head of Department

R: FINC 305

EQ: FINC 305

FINC616-21S1 (C) Semester 1

FINC 618 Financial Economics

15 Points 0.1250 EFTS

The economics of finance with applications to asset valuation, corporate finance, and portfolio management. FINC 618 students will be expected to apply advanced theories to these concepts.

P: Subject to approval of Head of Department

R: FINC 331

EQ: FINC 331

FINC618-21S2 (C) Semester 2**FINC 623 Advanced Derivative Securities**

15 Points 0.1250 EFTS

Detailed analysis of complex derivative securities, including valuation, hedging, speculation, arbitrage and risk management.

P: Subject to approval of the Head of Department.

FINC623-21S2 (C) Semester 2**FINC 629 Credit Risk Management**

15 Points 0.1250 EFTS

Management of Credit Risks

P: Subject to approval of the Head of Department

FINC629-21S1 (C) Semester 1**FINC 641 Monetary Economics: Theory**

15 Points 0.1250 EFTS

This course surveys a number of important topics in monetary theory. A few topics such as the implementation of monetary policy in New Zealand draw heavily on microeconomics. The lectures cover topics ranging from asymmetric information in credit markets to the term structure of interest rates. The topical nature of the course is brought out by a discussion of the causes and consequences of currency crises, foreign exchange market intervention, and the recent drive towards currency unions.

P: Subject to approval of the Head of Department.

R: ECON 641

EQ: ECON 641

FINC641-21S2 (C) Semester 2**FINC 643 Advanced International Finance**

15 Points 0.1250 EFTS

This course introduces students to selected relevant topics in international finance. It will familiarize students with the analytical techniques needed to understand different theoretical issues and evaluate the empirical performance of the models. The main topics covered in this course are exchange rate movements, current account determination, foreign exchange intervention and volatility, sovereign debt and crisis, financial development, financial liberalization and international capital flows, currency crisis, banking system stability and systemic risk, and the role of international institutions like the IMF.

P: Subject to approval of the Head of Department.

R: ECON 643

RP: ECON 344 or FINC 344

EQ: ECON 643

FINC643-21S1 (C) Semester 1**FINC 650 Corporate Governance**

15 Points 0.1250 EFTS

Corporate governance theory and practice. Topics include: Corporate governance in New Zealand, Australia, and around the world; Theories of corporate governance; The board of directors and its committees; Director and executive remuneration; Corporate governance scandals; and Stakeholders.

P: Subject to approval by the Head of Department

R: ACCT 624

EQ: ACCT 624

FINC650-21S2 (C) Semester 2**FINC 679 Internship or Consultancy Project**

15 Points 0.1250 EFTS

An internship or consultancy project is an opportunity to experience a professional work environment. You are expected to develop a good understanding of a sector, market or organisation. The work you submit will show an application of the tools, ideas or concepts of finance. You will be required to reflect critically on the requirements of transitioning from an academic to a work environment and the skills valued in a professional workplace. You will also need to provide a critical analysis of the work undertaken.

P: Subject to Head of Department approval

R: ECON 679

FINC679-20SU2 (C) Summer (Nov 20)**FINC679-21S1 (C) Semester 1****FINC679-21S2 (C) Semester 2****FINC 680 Research Project**

30 Points 0.2500 EFTS

P: Subject to approval of the Head of Department.

FINC680-21W (C) Whole Year (S1 and S2)**FINC 691 MCom Dissertation**

60 Points 0.5000 EFTS

P: Subject to approval of the Head of Department. Admission may be subject to meeting a sufficient standard in previous coursework.

R: FINC 680

FINC691-21A (C) Starts Anytime**FINC 694 MCom Thesis**

90 Points 0.7500 EFTS

MCom Thesis

P: Subject to approval of the Head of Department

FINC694-21A (C) Starts Anytime**FINC 695 MCom Thesis**

120 Points 1.0000 EFTS

P: Subject to approval of the Head of Department.

FINC695-21A (C) Starts Anytime

Part-time enrolment (0.65 EFTS) is available on approval.

FINC 699 MSc Thesis

120 Points 1.0000 EFTS

P: Subject to approval of the Head of Department.

FINC699-21A (C) Starts Anytime**FINC 790 Finance PhD**

120 Points 1.0000 EFTS

P: Subject to approval of the Head of Department.

FINC790-21A (C) Starts Anytime

*Part-time enrolment (0.65 EFTS) is available on approval. *From 1 January 2008, all international students pay the domestic fee for this course. International fees apply for all other courses.*

Finance and Economics

Department of Economics and Finance

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FIEC 601 Quantitative Finance and Economics

15 Points 0.1250 EFTS

An intensive finance and economics course for students with the minimum entry requirement for the MAFE degree. The course reviews foundational content in skills and techniques in finance, microeconomics, and econometrics that students will likely be deficient in if they have met only the minimum pre-requisites. Students will become proficient in the use of math, or else the ability to evaluate the math, for finance and economics topics they would have seen in the undergraduate pre-requisite for entry to the programme.

P: Subject to approval of the Head of Department

FIEC601-21SU1 (C) Summer (Jan 21)**FIEC601-21SU1 (D) Summer (Jan 21)****FIEC 675 Advanced Applications in Finance and Economics**

45 Points 0.3750 EFTS

FIEC 675 is specific to the Master of Applied Finance and Economics (MAFE). It follows the completion of coursework and is a module based course with applied projects in topics such as time series forecasting, cost-benefit analysis, portfolio management and financial decision-making.

P: Subject to approval of the Head of Department

FIEC675-20SU2 (C) Summer (Nov 20)

Financial Engineering

Department of Economics and Finance

Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.

FENG 601 Applications of Financial Engineering

45 Points 0.3750 EFTS

Practical applications of financial engineering including Monte Carlo simulation, convex optimisation, and structural products and exotic derivatives. This course is a capstone course for the Master of Financial Engineering.

P: 135 points course work of Master in Financial Engineering

FENG601-20SU2 (C) Summer (Nov 20)

Financial Management

Business Taught Masters Programme

Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.

MFIN 601 Corporate Finance

15 Points 0.1250 EFTS

This course examines corporate finance theory and its application to practice with particular attention to how financial decisions affect firm value. A range of topics are covered including financial asset management, asset and project valuation, capital structure and dividend policy, corporate restructuring, and other contemporary issues in corporate finance.

P: MBAZ 601 and MBAZ 603; subject to the approval of the Programme Director.

RP: MBAZ 604

MFIN601-21T2 (C) 17 May 2021 - 08 Aug 2021

MFIN 602 Investment Analysis and Portfolio Management

15 Points 0.1250 EFTS

This course examines theories of investment analysis and portfolio management and their application to practice with particular attention on how local firms manage their investments and risk in both the domestic and international markets. A range of topics are covered including equity and debt investments, derivatives, exchange rates, and alternative investments as well as other contemporary issues in portfolio and wealth management.

P: MBAZ 601 and MBAZ 603; subject to the approval of the Programme Director.

RP: MBAZ 604

MFIN602-21T2 (C) 17 May 2021 - 08 Aug 2021

MFIN 603 Financial Management

15 Points 0.1250 EFTS

This course examines theories of financial management and their application to practice with particular attention to how accounting standards and taxation policies affect financial decision-making. A range of topics are covered including international accounting standards, financial reporting and analysis, taxation policies and tax planning, financial risk management, corporate governance, culture and ethics in the world of finance, and other contemporary issues in financial management.

P: MBAZ 601 and MBAZ 603; subject to the approval of the Programme Director.

RP: MBAZ 604

MFIN603-21T2 (C) 17 May 2021 - 08 Aug 2021

MFIN 670 Applied Research in Financial Management

45 Points 0.3750 EFTS

This course consists of four modules in which students will undertake applied research projects. The modules are: Business in New Zealand; Cases in Financial and Management Accounting; Portfolio Management; Financial Decision-making.

P: Subject to the approval of the Programme Director.

R: FIEC 675

MFIN670-21X (C) 12 July 2021 - 12 Dec 2021

MFIN 671 Business in New Zealand

15 Points 0.1250 EFTS

This course will provide students with a general understanding of business in New Zealand including Māori organisations. Students will undertake applied research on a business in New Zealand. The course will cover a range of historic and contemporary issues.

P: MBAZ 601.

R: FIEC 675, MFIN 670

RP: MPAC 603

MFIN671-21T3 (C) 30 Aug 2021 - 21 Nov 2021

MFIN 672 Cases in Financial and Management Accounting

15 Points 0.1250 EFTS

This course provides students with an understanding of contemporary issues in financial and management accounting, and then undertake applied research on a business in New Zealand that is facing a specific issue in financial and/or management accounting. A representative of a local business will present the specific issue to the class and then the students - acting as professional consultants - will research possible solutions to the issue and present their findings to the representative. Students will be expected to apply concepts and theories in financial management to the business under study.

P: MPAC 603

R: FIEC 675, MFIN 670

MFIN672-21T1 (C) 01 Feb 2021 - 25 Apr 2021

MFIN 673 Portfolio Management

15 Points 0.1250 EFTS

The course focuses on building up the knowledge and the skills required for the construction and management of investment portfolio. The portfolios of assets such as stocks and bonds will be considered. The course provides the tools necessary to evaluate and critique the potential and realized performance of portfolio and investments and to the trade-off between risk and return.

P: MFIN 601, MFIN 602

MFIN673-21T3 (C) 30 Aug 2021 - 21 Nov 2021

MFIN 674 Financial Decision Making

15 Points 0.1250 EFTS

The purpose of MFIN674 is to enable students to develop and apply advanced theoretical and technical skills of financial decision making. Students will be required to provide sound decisions to a range of real world financial problems and then evaluate those decisions against success criteria. Findings will be have to be presented in a way that is "client-ready" and accessible to a non-expert in financial management. Students will also achieve a Bloomberg certification as part of this course.

P: (1) MFIN 601; (2) MFIN 602

MFIN674-21T3 (C) 30 Aug 2021 - 21 Nov 2021

Fine Arts

School of Fine Arts

FINA 101 What is Practice?

30 Points 0.2500 EFTS

An introduction to studio practice across five fine arts disciplines.

P: Subject to approval of the Head of School. Entry to this course is limited.

FINA101-21S1 (C) Semester 1

Limited entry. See limitation of entry regulations.

FINA 102 Communities of Practice

15 Points 0.1250 EFTS

An introduction to communities of practice within the contemporary arts world.

P: Subject to approval of the Head of School. Entry to this course is limited.

FINA102-21S1 (C) Semester 1

Limited entry. See limitation of entry regulations.

FINA 103 Studio Practice

45 Points 0.3750 EFTS

An introduction to a selection of fine arts studio practices.

P: Subject to approval of the Head of School. Entry to this course is limited.

FINA103-21S2 (C) Semester 2

Limited entry. See limitation of entry regulations.

Tāura | Postgraduate

Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.

FINA 450 Honours Research

120 Points 1.0000 EFTS

P: Subject to approval of the Head of School. Entry to this course is limited.

FINA450-21W (C) Whole Year (S1 and S2)

Limited entry. See limitation of entry regulations.

FINA 451 Honours Research A

60 Points 0.5000 EFTS

P: With the permission of the Head of the School of Fine Arts.

FINA451-21W (C) Whole Year (S1 and S2)

Limited entry. See limitation of entry regulations.

FINA 452 Honours Research B

60 Points 0.5000 EFTS

P: With the permission of the Head of the School of Fine Arts.

FINA452-21W (C) Whole Year (S1 and S2)

Limited entry. See limitation of entry regulations.

Fire Engineering

Department of Civil and Natural Resources Engineering

Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.**ENFE 601 Structural Fire Engineering**

15 Points 0.1250 EFTS

Introduction to specific fire engineering design of buildings. Active and passive fire protection. Severity of post-flashover fires. Fire resistance of steel, concrete and timber structures.

P: ENGR 403 or subject to approval of the Head of Department

R: ENCI 661

ENFE601-21S1 (C) Semester 1**ENFE 602 Fire Dynamics**

15 Points 0.1250 EFTS

Introduction to heat transfer problems in fire engineering including steady state and transient conduction, convection and radiation. Fundamentals of burning objects from combustion chemistry, ignition, flame spread, flame heights and fire plumes.

P: ENGR 403

EQ: ENCI 663

ENFE602-21S1 (C) Semester 1**ENFE 603 Fire Safety Systems**

15 Points 0.1250 EFTS

Fire detection and alarm systems. Suppression systems. Fire extinguishment. Smoke control systems. Integration of fire safety systems with building services.

P: ENGR 403 or subject to approval of the Head of Department

ENFE603-21X (C) 21 June 2021 - 14 Nov 2021**ENFE 605 Fire Safety Engineering Design**

30 Points 0.2500 EFTS

Building fire safety legislation and design framework; Societal expectation of life safety and property protection; Prescriptive and performance-based fire engineering design approaches; Application of qualitative and quantitative fire engineering analysis.

P: ENGR 403

C: ENFE 601, ENFE 602, ENFE 603, ENFE 610, ENFE 615, ENFE 618

ENFE605-21W (C) Whole Year (S1 and S2)

Limited entry. See limitation of entry regulations.

ENFE 610 Advanced Fire Dynamics

15 Points 0.1250 EFTS

Fundamentals of compartment fires modelling from correlations to Computational Fluid Dynamics modelling. Basics of compartment fire dynamics from radiation enhanced combustion to ventilation limited burning. Application of computer fire modelling to compartment fires with BRISK (zone model) and FDS (CFD model).

P: ENGR 403

ENFE610-21X (C) 21 June 2021 - 14 Nov 2021**ENFE 615 Human Behaviour in Fire**

15 Points 0.1250 EFTS

Examination and interaction of the individual with the fire-created environment. Behaviour of building occupants. How human behaviour issues are incorporated in building design.

P: ENGR 403 or approval of Head of Department

ENFE615-21S1 (C) Semester 1**ENFE 618 Advanced Structural Fire Engineering**

15 Points 0.1250 EFTS

Major structural fire events and their implications; Material properties at elevated temperatures; Global modelling of structures in fire; Joints at elevated temperatures; Robustness of structures in fire

P: ENFE 601, ENFE 602

ENFE618-21S2 (C) Semester 2

Limited entry. See limitation of entry regulations.

ENFE 675 Independent Course of Study

15 Points 0.1250 EFTS

P: Subject to approval of the Head of Department.

ENFE675-21S1 (C) Semester 1**ENFE675-21W (C) Whole Year (S1 and S2)****ENFE675-21S2 (C) Semester 2****ENFE 681 Fire Project**

15 Points 0.1250 EFTS

A fire engineering project to be undertaken within one of the Departments of Engineering.

P: Subject to approval of the Director of Studies.

ENFE681-20SU2 (C) Summer (Nov 20)**ENFE681-21A (C) Starts Anytime****ENFE 682 Fire Project**

30 Points 0.2500 EFTS

A fire engineering project to be undertaken within one of the Departments of Engineering.

P: ENGR 403

ENFE682-20SU2 (C) Summer (Nov 20)**ENFE682-21A (C) Starts Anytime****ENFE 683 Fire Project**

45 Points 0.3750 EFTS

A fire engineering project to be undertaken within one of the Departments of Engineering.

P: Subject to approval of the Director of Studies.

ENFE683-20SU2 (C) Summer (Nov 20)**ENFE683-21A (C) Starts Anytime****ENFE 690 MEFE Thesis**

120 Points 1.0000 EFTS

P: Subject to approval of the Head of Department.

ENFE690-21A (C) Starts Anytime

Part-time enrolment (0.65 EFTS) is available on approval.

ENFE 790 Fire Engineering PhD

120 Points 1.0000 EFTS

P: Subject to approval of the Head of Department.

ENFE790-21A (C) Starts Anytime

Part-time enrolment (0.65 EFTS) is available on approval. *From 1 January 2008, international students who are residing in New Zealand on a NZ Immigration Study Visa pay the Domestic Fee for this course. International fees apply for all other courses.

Forest Engineering

School of Forestry

FORE 199 Workshop Training Course

0 Points 0.0000 EFTS

Compulsory workshop training course for Forest Engineering students.

P: Approval into the BE(Hons) Forest Engineering.

FORE199-21W (C) Whole Year (S1 and S2)**ENFO 204 Forest Measurement**

15 Points 0.1250 EFTS

Forest mensuration and inventory, field survey techniques in plane surveying, related calculations and plotting.

P: Subject to approval of the Director of Studies, Forest Engineering.

R: FORE 141, FORE 216

ENFO204-21S2 (C) Semester 2**ENFO 327 Wood Science**

15 Points 0.1250 EFTS

A key management objective of forestry is the production of wood. The course provides the student with an understanding of the chemical and biological basis of the material properties of wood, how forestry can control these and the concept of wood quality. Reference will be made to how wood properties determine the suitability of a timber resource for certain wooden products.

P: Subject to approval of the Director of Studies, Forest Engineering

R: FORE 327

ENFO327-21S2 (C) Semester 2

ENFO 410 Forest Engineering Research

30 Points 0.2500 EFTS

Research methods and a major research project focussed on the application of engineering principles to the solution of a forest engineering problem. Project management principles, productivity study techniques and ergonomics will be taught within the scope of the course. Research methods will include effective literature review, research design, data collection, analyses and reporting. Topic to be established in class with industry and student input.

P: Subject to approval of the Director of Studies, Forest Engineering.

ENFO410-21W (C) Whole Year (S1 and S2)**ENFO 491 Special Topic**

15 Points 0.1250 EFTS

P: Subject to approval of the Director of Studies, Forest Engineering.

ENFO491-21S2 (C) Semester 2**ENFO 492 Special Topic**

15 Points 0.1250 EFTS

P: Subject to approval of the Director of Studies, Forest Engineering.

ENFO492-21S1 (C) Semester 1**ENFO 499 Industry Field Programme**

0 Points 0.0000 EFTS

Compulsory 3rd Pro Programme Field Trip. Students will be provided with details on location, timing and companies to be visited each year at commencement of 1st Semester.

P: Subject to approval of the Head of Department.

C: ENFO 410

ENFO499-21W (C) Whole Year (S1 and S2)**Tāura | Postgraduate**

Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.

ENFO 790 Forest Engineering PhD

120 Points 1.0000 EFTS

P: Subject to approval of the Head of Department.

ENFO790-21A (C) Starts Anytime

*Part-time enrolment (0.65 EFTS) is available on approval. *From 1 January 2008, international students who are residing in New Zealand on a NZ Immigration Study Visa pay the Domestic Fee for this course. International fees apply for all other courses.*

Forestry**School of Forestry****FORE 102 Forests and Societies**

15 Points 0.1250 EFTS

The course explores the interactions between the world's forests and human societies, the benefits derived by humans and the need for forest management.

P: Head of Department approval to enrol required.

R: FORE 101, FORE 103, FORE 104, FORE 111, FORE 121

FORE102-21S1 (D) Semester 1**FORE102-21S2 (D) Semester 2***Only for those enrolling in the course by distance learning.***FORE 105 Forests of the World**

15 Points 0.1250 EFTS

Forests of the world, wood energy, conservation and environment.

R: FORE 111, FORE 121

FORE105-20SU2 (D) Summer (Nov 20)**FORE105-21S1 (D) Semester 1****FORE105-21S2 (D) Semester 2****FORE 111 Trees, Forests and the Environment**

15 Points 0.1250 EFTS

The course explores the interaction between forests and people, linking forest types and locations to their products and services. We discuss sustainable forest management, the role of forestry tackling climate change and Treaty of Waitangi obligations.

R: FORE 101, FORE 102, FORE 103, FORE 104, FORE 105, FORE 121

FORE111-21S1 (C) Semester 1**FORE 131 Trees in the Landscape**

15 Points 0.1250 EFTS

An introduction to trees and their environment. A basic understanding of environmental and climatic effects on trees will underpin methods of species selection, growing and maintaining trees and site specific management.

FORE131-21S2 (C) Semester 2**FORE 141 Forest Growth and Measurements**

15 Points 0.1250 EFTS

Tree measurement. Stand variables. Growth and yield modelling. Sampling. Forest Inventory. Log measurement. Surveying and area measurement. Mapping and aerial photography. Introduction to global positioning systems (GPS) and geographic information systems (GIS).

FORE141-21S2 (C) Semester 2**FORE 151 Commercial Aspects of Forestry**

15 Points 0.1250 EFTS

Evaluating forestry sector performance at the business and industry level. An introduction to the key commercial disciplines as they are applied to forestry. Understanding methods to assess the value of forests in providing timber and non-timber benefits. Identifying the strategic choices and issues facing the commercial forestry sector.

FORE151-21S1 (C) Semester 1**FORE 205 Introduction to Forest Engineering**

15 Points 0.1250 EFTS

History of logging and reasons for harvesting. Steps in the harvesting process; common equipment use in forest operations; machine capabilities and limitations. Developing harvesting systems, including ground-based, cable and helicopter. Introduction to harvest planning and forest roads; machine costing and system productivity. Environmental and safety aspects of forestry operations; the Resource Management Act and the Occupational Safety and Health Act. Forest hydrology; with a focus on minimising impacts of operations on water quality.

P: Subject to approval of the Chair Board of Studies

R: FORE 305, ENFO 343, FORE 578

FORE205-21S1 (C) Semester 1**FORE 215 Introduction to Forest Economics**

15 Points 0.1250 EFTS

Forestry in the national economy. Forest industries, and forest accounting. Taxation and forestry. Forest valuation. Project appraisal, design and budgeting. Social economics.

P: FORE 151 or ENGR 101

FORE215-21S2 (C) Semester 2**FORE 218 Forest Biology**

30 Points 0.2500 EFTS

Systematic botany of forest trees and biology of New Zealand indigenous forest species. Principles of ecology with an emphasis on population, community and ecosystem factors affecting New Zealand's forests. Science and management of forest pests, disease, wind, fire, biosecurity and risk.

P: FORE 111 and BIOL 112; or subject to approval by the Chair Board of Studies.

R: FORE 202

RP: BIOL 111 (BCHM 111), and/or BIOL 113, and/or BIOL 116

FORE218-21S1 (C) Semester 1**FORE 219 Introduction to Silviculture**

15 Points 0.1250 EFTS

Classical silviculture systems: autecology; stand development and stand dynamics. Applications of tree physiology to silviculture; environmental ecophysiology; tree/soil relationships. Propagation; tree breeding systems; seed orchards; clonal forestry; molecular techniques in tree breeding.

P: BIOL 112 and BIOL 113, or FORE 111, 131 and 141.

R: PAMS 202, BIOL 252, FORE 214

FORE219-21S2 (C) Semester 2**FORE 222 Biometry 1a**

15 Points 0.1250 EFTS

A practical introduction to commonly used statistical methods, designed to increase the breadth of statistical skills. The emphasis is the application of statistical techniques to solve problems involving real data.

P: STAT 101

R: STAT 201, FORE 210, STAT 220, STAT 222

FORE222-21S1 (C) Semester 1

FORE 224 Biometry 1b

15 Points 0.1250 EFTS

To provide a practical introduction to the fundamentals of linear regression modelling, with emphasis on application to real data and problems.

P: STAT 101

R: STAT 202, FORE 210, STAT 220, STAT 224

FORE224-21S2 (C) Semester 2**FORE 307 Plantation Silviculture**

30 Points 0.2500 EFTS

Plantation silviculture: species selection, genetic improvement, clonal forestry, establishment, manipulation of stand density harvesting impacts. Integrated decision making. Management for non-wood products.

R: ENFO 307 prior to 2011, ENFO 492 prior to 2011

FORE307-21S1 (C) Semester 1**FORE 316 Forest Management**

30 Points 0.2500 EFTS

Forest management as decision-making. Operations Research techniques for forest management. Information requirements for forest management planning. Stand level analysis. Forest estate level analysis. Integration of the forest estate with harvesting and marketing decisions. Human factors: role and style of leadership, communication, motivation, teamwork and problem solving.

R: ENFO 316, FORE 316-prior to 2011, FORE 319, FORE 320, ENFO 491-prior to 2011.

FORE316-21S2 (C) Semester 2**FORE 327 Wood Science**

30 Points 0.2500 EFTS

A key management objective of forestry is the production of wood. The course provides the student with an understanding of the chemical and biological basis of the material properties of wood, how forestry can control these and the concept of wood quality. In the second part of the course we will introduce the students to the various wood processing industries, ranging from sawmilling over engineered wood products to pulping and biofuels. Reference will be made to the most suitable resource for individual products and how forest management can impact on the value of the timber.

R: ENFO 327, FORE 327 prior to 2011

FORE327-21S2 (C) Semester 2**FORE 342 Geospatial Science in Forest Monitoring and Management**

15 Points 0.1250 EFTS

This course explores the role and use of geospatial technologies in the context of vegetation management. Theory and practical application of geographic information system (GIS) software, global positioning system (GPS) technology, and remote sensing (e.g. satellite imagery, LiDAR) will be used to analyze and solve spatial problems in forests and other vegetated landscapes.

R: FORE 442 prior to 2011

FORE342-21S1 (C) Semester 1**FORE 414 Dissertation**

30 Points 0.2500 EFTS

The student will undertake an individual investigation of a subject approved by the School of Forestry and will submit a dissertation on this topic by a date specified by the Dean of Engineering and Forestry.

P: Subject to approval of the Head of School of Forestry.

FORE414-21W (C) Whole Year (S1 and S2)**FORE 419 Management Case Study**

30 Points 0.2500 EFTS

Students, individually and in small groups, will make a comprehensive study of an actual management case and will produce and present a plan for the management of a specified forest or conservation area.

P: FORE 316

FORE419-21S1 (C) Semester 1**FORE419-21W (C) Whole Year (S1 and S2)****FORE 422 Forest Harvest Planning**

15 Points 0.1250 EFTS

Harvest planning and analysis of harvesting systems. Machine capability and requirements. Impacts of terrain and stand variables on harvest systems. Ground-based planning including SKIDPC. Advanced cable yarding planning with CYANZ. Landing design and layout. Contract supervision and workforce management. Production planning and control systems.

P: FORE 205 (01 Jan 2010 - present) or FORE 305 (01 Jan 2009 - present) or FORE 305 (01 Jan 2009 - present)

R: ENFO 422

FORE422-21S1 (C) Semester 1**FORE 423 Forest Transportation and Road Design**

15 Points 0.1250 EFTS

Evaluation and comparison of options for the transport of forest products. Review of soil engineering characteristics and low-cost methods to determine the bearing capacity of subgrade soils. Vehicle/road interaction. Legal regulations for heavy vehicles operating on New Zealand public roads. Forestry truck and trailer designs and their impact on load capacity and vehicle safety. Road design for forest roads and the design of low-cost water crossings and drainage structures. Application of RoadEng road design software. Cost estimation and contract management for road construction.

P: FORE 205 or FORE 305

R: ENFO 423

FORE423-21S2 (C) Semester 2**FORE 426 Forest Products Marketing and International Trade**

15 Points 0.1250 EFTS

World forest resources. Patterns of world trade, shipping and policies of international trade. Roles of international institutions in free trade and economic integration. Trade, aid and economic development with special reference to forestry and forest industries.

FORE426-21S1 (C) Semester 1**FORE 435 Forest Economics 2**

15 Points 0.1250 EFTS

Project analysis, forest valuation, risk and uncertainty. Forestry as a business.

P: FORE 215 or subject to approval of the Head of Department.

R: FORE 211, FORE 425

FORE435-21S2 (C) Semester 2**FORE 436 Forest Tree Breeding**

15 Points 0.1250 EFTS

Review of tree breeding and conservation in the context of applied breeding programmes. The course connects elements of economics, quantitative genetics and tree multiplication practices for the design of tree improvement projects and the conservation of their genetic resources.

P: FORE 219, FORE 222 and FORE 224

R: FORE 408 (2006-2007)

FORE436-21S1 (C) Semester 1**FORE 443 Biosecurity Risk Management**

15 Points 0.1250 EFTS

Biological threats to New Zealand environment and primary industries with a focus on risk identification and management systems in Forestry.

R: BIOS 201

FORE443-21S2 (C) Semester 2**FORE 447 Environmental Forestry**

30 Points 0.2500 EFTS

New Zealand primary production systems; Ecosystem services from primary production systems; Cultural services provided by forests; Soil and water conservation and management; Biodiversity conservation and management; Policy, regulation, certification; Sustainable use of native forests for production; Management planning and monitoring.

P: Subject to approval to the Chair, Forestry Board of Studies

R: FORE 444, FORE 445, BIOL 379

FORE447-21S2 (C) Semester 2**FORE 475 Independent Course of Study**

15 Points 0.1250 EFTS

P: Subject to approval of the Head of Department.

FORE475-21S1 (C) Semester 1**FORE475-21W (C) Whole Year (S1 and S2)****FORE475-21S2 (C) Semester 2****Tāura | Postgraduate**

Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.

FORE 610 Research Methods

15 Points 0.1250 EFTS

The nature of the scientific method, planning research, defining objectives, writing proposals and workplaces, experimental design and analysis, statistical procedures using R, making inferences from analyses, drawing conclusions, scientific report writing.

P: Subject to approval by the Head of School

FORE610-21S1 (C) Semester 1**FORE610-21S2 (C) Semester 2**

FORE 616 Restoration Ecology

30 Points 0.2500 EFTS

General principles of restoration ecology, assessment of restoration success; restoration planning; conservation in productive landscapes.

P: Subject to approval of the Head of Department.

FORE616-21S2 (C) Semester 2

FORE 618 Wood Quality

15 Points 0.1250 EFTS

A key management objective of forestry is the production of wood. The course provides the student with an understanding of the chemical and biological basis of the material properties of wood, how forestry can control these and the concept of wood quality. This course will have a focus on fast-growing short-rotation plantation species and tropical timber.

P: Subject to approval by the Head of School.

R: FORE 327, ENFO 327

FORE618-21S2 (C) Semester 2

FORE 619 Wood Processing

15 Points 0.1250 EFTS

This course introduces students to various wood processing industries, ranging from sawmilling over engineered wood products to pulping and biofuels. Reference will be made to the most suitable resource for individual products. Emphasis is given to fast-growing short-rotation plantation species and tropical timber.

P: Subject to approval by the Head of School

R: FORE 327

FORE619-21S2 (C) Semester 2

FORE 624 Plantation Silviculture

30 Points 0.2500 EFTS

In-depth coverage of all aspects of plantation silviculture from seed production through to harvesting impacts, with emphasis on decision-making.

P: Subject to approval of the Head of Department.

R: FORE 631

FORE624-21S1 (C) Semester 1

FORE 641 Plantation Forest Management

30 Points 0.2500 EFTS

Operations research techniques, Information requirements for forest management planning, Stand level analysis, Forest estate level analysis, Integration of the forest estate with manufacturing and marketing decisions, Risk & Uncertainty, Human factors.

P: Subject to approval by the Head of School.

R: FORE 632, FORE 633

FORE641-21S2 (C) Semester 2

FORE 642 Advanced IT Applications in Forestry and Natural Resource Management

15 Points 0.1250 EFTS

This course illustrates how information technology can be applied to a range of forestry and vegetation management problems. Students will develop geospatial technology skills applicable to a range of natural resource management and forestry disciplines. The course includes an emphasis on using cutting edge technologies like ArcGIS software, positioning technology, and image analysis, which are of value to forest and natural resource management.

P: Subject to approval of Head of School

R: FORE 342

FORE642-21S1 (C) Semester 1

FORE 643 Modelling for Forest Management

15 Points 0.1250 EFTS

Approaches to modelling forest growth and yield. Compatible taper and volume functions. Difference equations. Modelling distributions and fitting functions. Estate simulation. Linear programming applications.

P: Subject to approval by the Head of School

FORE643-21S1 (D) Semester 1

FORE643-21S2 (D) Semester 2

FORE 675 Independent Course of Study

30 Points 0.2500 EFTS

P: Subject to approval of the Head of Department.

FORE675-21S1 (C) Semester 1

FORE675-21W (C) Whole Year (S1 and S2)

FORE675-21S2 (C) Semester 2

FORE 679 MForSc Report

60 Points 0.5000 EFTS

P: Subject to approval of the Head of Department.

FORE679-21A (C) Starts Anytime

FORE679-21S1 (C) Semester 1

FORE679-21S2 (C) Semester 2

FORE 690 MForSc Thesis

120 Points 1.0000 EFTS

P: Subject to approval of the Head of Department.

FORE690-21A (C) Starts Anytime

Part-time enrolment (0.65 EFTS) is available on approval.

FORE 790 Forestry PhD

120 Points 1.0000 EFTS

P: Subject to approval of the Head of Department.

FORE790-21A (C) Starts Anytime

*Part-time enrolment (0.65 EFTS) is available on approval. *From 1 January 2008, international students who are residing in New Zealand on a NZ Immigration Study Visa pay the Domestic Fee for this course. International fees apply for all other courses.*

French

School of Language, Social and Political Sciences

FREN 121 French Language Acquisition: Beginners A

15 Points 0.1250 EFTS

This is an introductory course for students who have no previous knowledge of French. It is the first course in a sequence of six French language acquisition courses offered by the Programme.

R: FREN 104, FREN 127, FREN 120

FREN121-21S1 (C) Semester 1

FREN 122 French Language Acquisition: Beginners B

15 Points 0.1250 EFTS

This is the second course in a sequence of six French language acquisition courses offered by the Programme. Students without the formal prerequisite, but with some previous knowledge of French should consult the Programme Director to determine which course is the most appropriate.

P: FREN 121, or NCEA Level 2 French, or placement test.

R: FREN 112, FREN 218

FREN122-21S2 (C) Semester 2

FREN 211 Banned Books and Countercultures

15 Points 0.1250 EFTS

This course continues the study of French texts, films and topics in French culture. Students must be able to read French.

P: Any 60 points at 100 level from any subject. A reading knowledge of French required.

R: FREN 208, FREN 304, FREN 311

FREN211-21S2 (C) Semester 2

FREN 221 French Language Acquisition : Intermediate A

15 Points 0.1250 EFTS

This is the third course in a sequence of French language acquisition courses offered by the programme. Students without the formal prerequisite, but with some previous knowledge of French, should consult the Programme Director to determine which course is the most appropriate.

P: FREN 122, or NCEA Level 3 French, or placement test.

R: FREN 123, FREN 111

FREN221-21S1 (C) Semester 1

FREN 222 French Language Acquisition : Intermediate B

15 Points 0.1250 EFTS

This is the fourth course in a sequence of French language acquisition courses offered by the programme. Students without the formal prerequisite, but with some previous knowledge of French, should consult the Programme Director to determine which course is the most appropriate.

P: FREN 221, or placement test.

R: FREN 124, FREN 111

FREN222-21S2 (C) Semester 2

FREN 311 Banned Books and Countercultures

30 Points 0.2500 EFTS

This course continues the study of French texts, films and topics in French culture. Students must be able to read French.

P: Any 60 points at 200 level from any subject. A reading knowledge of French required.

R: FREN 208, FREN 304, FREN 211

FREN311-21S2 (C) Semester 2

FREN 321 French Language Acquisition: Advanced A

30 Points 0.2500 EFTS

This is the fifth course in a sequence of six French language acquisition courses.

P: FREN 222

R: FREN 201, FREN 202

FREN321-21S1 (C) Semester 1

FREN 322 French Language Acquisition: Advanced B

30 Points 0.2500 EFTS

This is the sixth course in a sequence of six French language acquisition courses.

P: FREN 321

R: FREN 301

FREN322-21S2 (C) Semester 2

PACE 395 Internship

30 Points 0.2500 EFTS

What can you do with your major? With your degree? The purpose of the internship course is to explore both the ideological and practical assumptions guiding this question. The course is designed to be a critical, theoretical and "real-world" examination of the practices and ideologies inherent in both community and business organisations. You will apply the analytical skills acquired through your major, and through class seminars and readings, to a project designed by a local company or community group. Please check out the website for further information and specific project descriptions: www.arts.canterbury.ac.nz/internships

P: 150 points, special application and interview, and permission of the Internship Director.

R: ARTS 395

EQ: ARTS 395

PACE395-20SU2 (C) Summer (Nov 20)

PACE395-21A (C) Starts Anytime

PACE395-21S1 (C) Semester 1

PACE395-21S2 (C) Semester 2

Limited entry. See limitation of entry regulations. A student will be selected for a specific project.

Only students accepted for projects will be allowed into the course. Please go to <http://www.arts.canterbury.ac.nz/internships> for more information.

Tāura | Postgraduate

Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.

FREN 401 Advanced French

30 Points 0.2500 EFTS

A language acquisition course involving advanced work in reading, writing, listening and speaking French.

P: Subject to approval of the Programme Coordinator.

FREN401-21S1 (C) Semester 1

FREN 418 Special Topic

30 Points 0.2500 EFTS

French Literature and Cinema. The comparison of text and film is intended to evaluate what specifically belongs to each medium.

P: Subject to approval of the Programme Coordinator.

FREN418-21S2 (C) Semester 2

FREN 422 French Translation

30 Points 0.2500 EFTS

FREN422 will explore the application of translation theories in a French-language context. Students will examine translations to and from French and English via multiple genres, techniques and methodologies, from literary to technical translations.

P: Subject to approval of the Programme Coordinator.

FREN422-21S2 (C) Semester 2

FREN 650 MA Dissertation

60 Points 0.5000 EFTS

MA Dissertation

P: Subject to approval of the Head of Department.

FREN650-21A (C) Starts Anytime

FREN650-21S1 (C) Semester 1

FREN650-21S2 (C) Semester 2

FREN 690 MA Thesis

120 Points 1.0000 EFTS

P: Subject to approval of the Programme Coordinator.

FREN690-21A (C) Starts Anytime

Part-time enrolment (0.65 EFTS) is available on approval.

LANC 401 In Other Words What? Theory and Practice of Translation

30 Points 0.2500 EFTS

An introduction to Translation Studies for students skilled in two or more languages, including aspects of modern theory and practice in the craft of accurate translation.

P: Subject to approval of the Head of Programme.

LANC401-21S1 (C) Semester 1

FREN 790 French PhD

120 Points 1.0000 EFTS

P: Subject to approval of the Head of School.

FREN790-21A (C) Starts Anytime

Part-time enrolment (0.65 EFTS) is available on approval. *From 1 January 2008, international students who are residing in New Zealand on a NZ Immigration Study Visa pay the Domestic Fee for this course. International fees apply for all other courses.

Geographic Information Science**Department of Geography**

Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.

GISC 402 GI Science Research

15 Points 0.1250 EFTS

This course has the dual purpose of educating students in the nature and breadth of GI Science research undertaken in academia, industry and government as well as to guide students in the development of a proposal to undertake their own research in GI Science. The course will include a series of guest lecturers from experts across academia, industry and government providing insight into the landscape of employment or further research. In proposal development, students will learn how to plan, execute and present a research proposal and project. Students will also be exposed to some of the social, legal and ethical issues associated with GIS research.

P: Entry subject to the approval of the Programme Director, GIS.

RP: GEOG 205, GEOG 401

GISC402-21S2 (C) Semester 2

Limited entry. See limitation of entry regulations.

GISC 404 Spatial Analysis

15 Points 0.1250 EFTS

This course provides an introduction to a range of statistical techniques used in the analysis of spatial data. A comprehensive lab programme uses a variety of software packages to explore visualisation, exploratory spatial data analysis, spatial autocorrelation, point pattern analysis, spatial statistics and the modifiable areal unit problem (MAUP).

P: Subject to the approval of the Programme Director, GIS.

RP: GEOG 205, GEOG 324

GISC404-21S1 (C) Semester 1

GISC 406 Remote Sensing for Earth Observation

15 Points 0.1250 EFTS

This course explores the use of data from earth orbiting satellites for monitoring and analyzing the state of the environment from local to regional scales. It provides practical experience in data analysis from a range of earth observation sensors to obtain information on surface properties in 3 dimensions. The derived information can be used for further analysis in Geographic Information Systems.

R: GEOG 407

RP: GEOG 205, GEOG 313

GISC406-21S1 (C) Semester 1

GISC 411 Spatial Analytics for Health

15 Points 0.1250 EFTS

This course will provide students with an introduction to the use of spatial analytics methods for the study of health, disease and health care. Students will be expected to apply these methods in developing a research proposal.

P: Entry is subject to the approval of the Programme Director: GIS.

RP: HLTH 462 recommended but not required.

GISC411-21S1 (C) Semester 1

GISC 412 Spatial Data Science

15 Points 0.1250 EFTS

This course introduces students to the field of spatial data science and is designed to develop students' understanding of some fundamental algorithms and code libraries that are used to manipulate, analyse, and map spatial data, and to explore how they are implemented in software. Students will use Python and Javascript programming languages. The course is largely lab and project based, with context and theoretical frameworks presented in lectures and tutorials in order to guide hands-on development.

P: GISC 405, COSC 121, COSC 480, or any previous Python programming experience.

GISC412-21S2 (C) Semester 2

GISC 413 Geomatic Data Acquisition Techniques

15 Points 0.1250 EFTS

The course gives the students a broad understanding of the techniques and issues involved with position measurement and capture of geographic data or images. Much of the course material is concentrated on airborne photography, but other remote sensing, positioning and data gathering platforms are included, including GPS, oceanic platforms and sensors.

P: Entry is subject to the approval of the Director: GIS.

RP: GISC 404, GISC 406

GISC413-21S2 (C) Semester 2

Limited entry. See limitation of entry regulations.

GISC 415 Geographic Information Systems (GIS) Internship

15 Points 0.1250 EFTS

This course allows students to utilize knowledge gained from the PGDipGIS/MGIS postgraduate courses within business, government and non-profit organisations while gaining career-related work experiences, exploring compatibility with specific careers and companies, and becoming more mature professionally. Sponsorship for internship positions may be available.

P: Entry is limited to students enrolled in the PGDipGIS and MGIS programmes and subject to the approval of the MGIS Programme Director.

R: Subject to the approval of the MGIS Director against normal or previous employment.

GISC415-21S2 (C) Semester 2

Geography

Department of Geography

GEOG 106 Global Environmental Change

15 Points 0.1250 EFTS

An exploration of major environmental changes happening at the global scale. With a particular focus on climate, ice, freshwater, and ocean processes, we investigate how geospatial monitoring and other tools are used to address global environmental challenges. We look at how human activities are interacting with Earth systems, and aim to empower people to improve environmental and societal resilience at a range of scales.

R: GEOG 103

GEOG106-21S2 (C) Semester 2

GEOG 110 People, Places and Environments

15 Points 0.1250 EFTS

This course draws on the insights of human geography to deepen your understanding of how people make places and shape environments. We examine the economic, social and cultural processes that create contemporary places and also consider their possible futures. Through practical work, you will learn some of the key methods and techniques available for describing and analyzing how places change.

R: GEOG 107

GEOG110-21S1 (C) Semester 1

GEOG 201 Environmental Processes: Principles and Applications

15 Points 0.1250 EFTS

The course explores the fundamental principles and applications of knowledge related to the surface of the earth in the sub-disciplines of geomorphology, climatology and hydrology. Systems studied include landforms, glaciers, climate, and rivers. The main objective of the course is to explain the spatial and temporal characteristics, and the interaction between these systems in an interdisciplinary manner by drawing extensively from New Zealand examples.

P: Any 30 points of 100-level Geography, or entry with approval of the Head of Department

R: GEOG 201 prior to 2009.

GEOG201-21S1 (C) Semester 1

GEOG 205 Introduction to Geographic Information Systems and Science

15 Points 0.1250 EFTS

Geographic Information Systems (GIS) provide the tools for gathering, managing, analysing and presenting spatial information in an intuitive and graphical way. This course provides students with an introduction to the fundamental concepts, principles and techniques of GIS.

P: 45 points at 100-level or above, from any degree schedule.

R: DIGI 205 and GISC 422

GEOG205-21S1 (C) Semester 1

GEOG 206 Resource and Environmental Management

15 Points 0.1250 EFTS

This course will provide students with a general introduction to debates in resource and environmental management, an understanding of the policies and practices of such management in New Zealand, a critical analysis of the concepts upon which these are based, and an insight into practical issues in this field, including environmental and social impact analysis and the Resource Management Act.

P: Any 30 points of 100 level geography, or GEOG 106 and ENVR 101, or entry with approval of the Head of Department.

GEOG206-21S2 (C) Semester 2

GEOG 208 Remote sensing for geospatial analysis

15 Points 0.1250 EFTS

This course provides an introduction to remote sensing data for geospatial analysis. Students will develop skills for the acquisition of data from unmanned aerial vehicles (UAVs) and satellites. Practical work focuses on the preparation of data for use in a Geographic information system (GIS), while laboratory exercises will introduce a range of analytic software that can be used to prepare and examine remotely sensed data.

P: Any 30 points of 100-level Science, Engineering or Commerce

R: GEOG 313

GEOG208-21S2 (C) Semester 2

GEOG 211 Environmental Processes: Research Practice

15 Points 0.1250 EFTS

This course provides a field and practical based approach to investigating at least one major earth process from an integrated perspective. It is centred on a residential field trip to the Cass Basin Arthurs Pass. The learning is project oriented and includes the development of a project from the initial idea, through the development of the skills and techniques required to conduct the fieldwork and produce the written project report. Assessment is based on a combination of assessed practicals and the field work research project report.

P: Any 30 points of 100 level geography, or entry with the approval of the Head of Department.

C: GEOG 201

R: GEOG 201 prior to 2009

GEOG211-21S1 (C) Semester 1

GEOG 215 Environmental Hazards and Disasters

15 Points 0.1250 EFTS

This course provides an understanding of environmental hazards and disasters, with a particular focus on flooding and coastal hazards and the related impacts on human communities. Examples will be drawn from New Zealand, which will include a consideration of Māori experiences of and responses to disasters, and from overseas.

P: 30 points of Geography or Geological Sciences at 100 level; or 30 points from Science, Arts, Commerce, or Engineering.

R: GEOG 305

GEOG215-21S2 (C) Semester 2

GEOG 217 Places for Wellbeing and Flourishing

15 Points 0.1250 EFTS

An examination of how places shape human wellbeing and flourishing, in both positive and less than positive ways. With a focus on settler colonial nations, we will examine the significant variations that exist between places in terms of the housing, work, education and support opportunities available within them. We consider the impact of these variations for local wellbeing and flourishing, noting the uneven experiences of particular social groups. We also examine place-based interventions that may support local wellbeing and flourishing, and selection of methods to evaluate these interventions. The course draws on the insights of human geography and engages with the contemporary lived experience of places in Aotearoa New Zealand and beyond.

P: Any 30 points at 100 level from any subject, normally including GEOG 110 or GEOG 106.

GEOG217-21S2 (C) Semester 2

GEOG 222 Transport, Urban Development and Wellbeing

15 Points 0.1250 EFTS

Nau mai ki GEOG222 - welcome to GEOG222. Transport fundamentally shapes our communities and affects our wellbeing. This course examines the role and influence of transport in shaping our towns and cities, and affecting our personal wellbeing. The course will have a particular focus on how transport and urban development can help face challenges like climate change. The course will also look at issues related to Māori, for example, how has urbanisation affected their wellbeing. As well as gaining increased understanding of transport, urban development and wellbeing through traditional learning approaches, students will also learn from transport, urban development and health professionals. They will develop a range of practical, applied and transferrable skills by addressing real world problems and present findings in both written and oral formats.

P: 45 pts of 100 level including GEOG 110 or GEOG 106

GEOG222-21S1 (C) Semester 1

GEOG 309 Research for Resilient Environments and Communities

30 Points 0.2500 EFTS

This course will develop your ability to undertake research that supports resilient environments and communities. Drawing on problem-based and service learning approaches, you will design and complete a research project in collaboration with a community partner. The training, practice and critical evaluation of the research will be carried out in groups, and you will communicate your research findings using spoken, numerical and written skills. The course begins with a short fieldtrip, and then progresses through occasional lectures and regular project group meetings, supported by web-based resources. It concludes with a public conference. The emphasis is on students working together to solve real world problems using skills that are transferable to the workplace.

P: 30 points of GEOG at 200 level, or GEOG 206 and ENVR 201

R: GEOG 204, GEOG 303

GEOG309-21S2 (C) Semester 2**GEOG 311 Coastal Studies**

15 Points 0.1250 EFTS

This course explores the processes that form and change coastal environments in New Zealand, the Pacific and worldwide. Topics examined include a selection of: sea level change today and into the future, waves and currents, the role of sediments in how beaches work to protect land and interact with oceans, plus sessions focussed on the wonders and practical realities of wetlands, tropical reefs, and human interactions with coastal environments. You will gain an understanding of models of the coastal zone, as well as an experience of field methods and laboratory techniques used in coastal investigations. The course was developed based on direct industry feedback and involvement. There is also an optional one-day field-trip, where there is an opportunity to put your learnings into practice and measure waves, currents and beach profiles, and to collect sediment and ecological data for analysis in labs, all using up-to-date professional techniques.

P: 30 points of 200-level Geography, including GEOG 201, or in special cases with approval of the Head of Department.

GEOG311-21S1 (C) Semester 1**GEOG 312 Snow, Ice and Climate**

15 Points 0.1250 EFTS

This course examines the physical processes involved with the formation and evolution of mountain glaciers and seasonal snow, including processes such as surface mass balance, dynamics and hydrology. The course develops knowledge by drawing on key research, and encourages students to critically evaluate published work. The supporting lab programme will enable students to develop a range of transferable skills by working with real data and equipment, for example, ground penetrating radar (GPR), snowpit analysis, and simple glacier models.

P: 30 points of 200-level Geography, including GEOG 201, or in special cases with approval of the Head of Department.

GEOG312-21S2 (C) Semester 2**GEOG 321 European Integration From Community to Union**

30 Points 0.2500 EFTS

The course is designed to introduce students to the process of European integration that has transformed post-1945 Europe and seen the European Union emerge as a new global power. The course draws on an inter-disciplinary approach and is focused on policy analysis.

P: One of: (a) 15 points with a B average in any Arts subject; or (b) any 15 points in GEOG at 200 level; or (c) 15 points of EURO at 200-level with a B Pass; or (d) 30 points of EURO at 200-level; or (e) any 45 points from the Arts Schedule at 200-level.

R: EURO 210, EURO 310, EURA 210, EURA 310

EQ: EURA 310

GEOG321-21S1 (C) Semester 1**GEOG 323 Geospatial Analysis in the Social and Environmental Sciences**

15 Points 0.1250 EFTS

This course provides an introduction to spatial analysis, an important tool for exploring, analysing, modelling and visualising geospatial data. Students will acquire the knowledge and skills necessary to investigate and understand spatial patterns resulting from social and physical processes operating on the surface of Earth, such as epidemics, crime and pollution. A variety of software packages will be introduced and used to explore different aspects of spatial analysis. A number of issues inherent to dealing with spatial data, such as the ecological fallacy and modifiable areal unit problem (MAUP), will also be highlighted.

P: 30 points of 200-level Geography, including GEOG 205, or in special cases with approval of the Head of Department.

GEOG323-21S1 (C) Semester 1**GEOG 324 Web GIS and Geoinformatics**

15 Points 0.1250 EFTS

This course builds on GEOG205 Introduction to GIS, delving deeper into the nuts and bolts of how GIS work and advancing students' knowledge and skills in geographic data management, geographic information systems design, geographic information visualisation, and human computer interaction from a geoinformatics perspective. GEOG324 is a technical, largely lab- and project-based course, where students will use a mix of proprietary and open source GIS software to gain advanced skills in GIS, focusing on Web GIS applications. Students will learn how databases are used to store geographic information, and gain practice in the creation of dynamic web maps and Internet-based spatial analysis. There is also a research component to the course in order to ensure students are aware of the research landscape in geographic information science (GIScience) and are able to critically analyse work undertaken in GIScience.

P: 30 points of 200-level Geography, including GEOG 205, or in special cases with approval of the Head of Department. Recommended preparation: COSC 121, or equivalent introductory programming course.

RP: COSC 121, or equivalent introductory programming course.

GEOG324-21S2 (C) Semester 2**GEOG 325 Health, Wellbeing and Environment**

15 Points 0.1250 EFTS

Human health and wellbeing are profoundly shaped by the environments in which we live. This course examines the influence of the physical, built and social aspects of the environment on health and wellbeing. In addition to gaining increased understanding of health-environment interactions, students will develop skills in tracking environmental exposures and in presenting research findings in both written and oral formats.

P: 30 points of Geography at 200 level; or 30 points from Science, Arts or Health Sciences.

R: GEOG 322

GEOG325-21S1 (C) Semester 1**GEOG 351 Rethinking Development**

15 Points 0.1250 EFTS

This course explores the ways in which people across the globe are building community economies based on ethical concerns for more sustainable and equitable futures. It will provide students with a theoretical basis for rethinking economies and some practical skills in organising for community-based development interventions.

P: Any 30 points of 200 level Geography, or approval of the Head of Department.

R: GEOG 212

GEOG351-21S2 (C) Semester 2**Tāura | Postgraduate**

Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.

GEOG 401 Wellbeing, Community and Place

30 Points 0.2500 EFTS

This course explores how health and wellbeing are shaped by our natural, built and social environments, in complex and sometimes unexpected ways. We will draw on a range of research to examine the connections between wellbeing, community and place.

P: Entry subject to approval of the Head of Department.

R: GEOG 452

GEOG401-21S2 (C) Semester 2**GEOG 402 Resilient Cities**

30 Points 0.2500 EFTS

This course explores the contemporary and pressing issue of urban development. The course focuses on geographical issues related to urban planning for resource use and infrastructure, including energy use, transport networks and green development. It includes a focus on the growing need for cities to be resilient to the many challenges they face. The course includes an applied and practical element, conducted in collaboration with local government officials and communities.

P: Entry subject to approval of the Head of Department.

R: GEOG 446

GEOG402-21S1 (C) Semester 1**GEOG 404 Resource and Environmental Management (REM) in New Zealand**

30 Points 0.2500 EFTS

This course provides a deep and yet practical understanding of the processes involved in resource and environmental management in New Zealand, including the principles of kaitiakitanga. It aims to enable students to engage actively with the realities of the application of the Resource Management Act, and to be able to apply existing knowledge of environmental and/or human processes to the solution of environmental management problems. The course will be of interest to students with a wide variety of geographical backgrounds, as well as to engineers, lawyers, and those considering a career related to resource use.

P: Entry subject to approval of the Head of Department.

R: GEOG 444

GEOG404-21S2 (C) Semester 2*Limited entry. See limitation of entry regulations.***GEOG 409 Coasts and Rivers: from Natural Processes to Urban Environments**

30 Points 0.2500 EFTS

This course explores coastal and fluvial geomorphic processes and how they interact with urban environments. Understanding these processes is essential for effective resource and environmental management, as well as for building resilient settlements. Core topics will include river and coastal geomorphology; hydrology and hydrodynamics; flooding from coastal, fluvial and pluvial sources; catchment processes; river mouth environments; sea level rise; theoretical and numerical modelling; human use of coasts and rivers; and laboratory and research methods in coastal and river science. Examples will be drawn from New Zealand, the Pacific, and worldwide.

P: Entry subject to approval of the Head of Department.

R: GEOG 437

GEOG409-21S1 (C) Semester 1

GEOG 412 Alpine and Polar Environments

30 Points 0.2500 EFTS

Understanding physical processes and earth-atmosphere interactions in alpine and polar environments is crucial for the management of water resources, tourism and recreation, particularly in the context of global climate change. In this course, you will gain knowledge of these processes and interactions, and develop practical skills for collecting and analysing atmospheric, cryospheric (snow and ice) and geospatial data relevant to alpine and polar research.

P: Entry subject to approval of the Head of Department.

R: GEOG 408 and GEOG 410

GEOG412-21S2 (C) Semester 2**GEOG 415 Geography Internship**

30 Points 0.2500 EFTS

This course allows Geography students to apply their discipline specific skills within business, government, industry and non-profit organisations while gaining work-related experience.

P: Entry subject to approval of the Head of Department.

R: GISC 415

GEOG415-21S2 (C) Semester 2**GEOG 420 Research Project**

30 Points 0.2500 EFTS

This course represents the Research Project component of the Honours programme. A research topic will be chosen in discussion with a possible staff supervisor, a proposal developed and approved, and a written research report completed. This is a whole year course and work is done for the project across both semesters. Various milestones are included through the year including proposal development and oral progress reports.

P: Entry subject to approval of the Head of Department.

R: GEOG 480, GEOG 490, GEOG 481, GEOG 491

GEOG420-21W (C) Whole Year (S1 and S2)**GEOG420-21CY (C) Cross Year****GEOG 660 MA Dissertation**

60 Points 0.5000 EFTS

MA Dissertation

P: Subject to approval of the Head of Department.

GEOG660-21A (C) Starts Anytime**GEOG660-21S1 (C) Semester 1****GEOG660-21S2 (C) Semester 2****GEOG 690 MA Thesis**

120 Points 1.0000 EFTS

P: Subject to approval of the Head of Department.

GEOG690-21A (C) Starts Anytime*Part-time enrolment (0.65 EFTS) is available on approval.***GEOG 692 Community or Workplace Based Project**

60 Points 0.5000 EFTS

Masters project, undertaken in collaboration with a community or organisational partner.

P: Subject to approval of the Head of Department.

GEOG692-21A (C) Starts Anytime**GEOG692-21X (C) 05 July 2021 - 13 Feb 2022****GEOG 693 Geospatial Science and Technology Project**

60 Points 0.5000 EFTS

Masters project in Geography

P: Subject to approval of the Head of Department

GEOG693-20SU2 (C) Summer (Nov 20)**GEOG693-21X (C) 08 Nov 2021 - 06 Feb 2022****GEOG 694 Community or Workplace Based Project**

60 Points 0.5000 EFTS

Masters Project in Geography

P: Subject to approval of the Head of Department

GEOG694-21CY (C) Cross Year**GEOG 695 MSc Thesis**

120 Points 1.0000 EFTS

The thesis shall normally be completed and presented to the Registrar within a 12 month period. Students must consult the M.A. or M.Sc. Regulations for details of the other requirements for the degree.

P: Subject to approval of the Head of Department.

GEOG695-21A (C) Starts Anytime**GISC 422 Foundations of Geographic Information Systems**

15 Points 0.1250 EFTS

Geographic information systems (GIS) provide the tools for managing, analysing and presenting spatial information in an intuitive and graphical way. This course provides students with an introduction to the fundamental concepts, principles and techniques of GIS. The course examines the use of geographic technology, including global positioning systems as well as GIS. It also introduces foundational GIS and GPS software skills, including ArcView. The course will provide the geospatial knowledge and skills necessary for postgraduate geospatial study.

R: GEOG 205; DIGI 205

RP: Undergraduate degree or diploma

GISC422-21S1 (C) Semester 1**GISC422-21S2 (C) Semester 2****GEOG 790 Geography PhD**

120 Points 1.0000 EFTS

P: Subject to approval of the Head of Department.

GEOG790-21A (C) Starts Anytime

*Part-time enrolment (0.65 EFTS) is available on approval. *From 1 January 2008, international students who are residing in New Zealand on a NZ Immigration Study Visa pay the Domestic Fee for this course. International fees apply for all other courses.*

Geology

Department of Geological Sciences

GEOL 111 Planet Earth: An Introduction to Geology

15 Points 0.1250 EFTS

A general introduction to the study of the dynamic Earth and its geology, including Earth structure and plate tectonics, volcanic activity, crystal processes and the nature of minerals and rocks.

R: ENCI 271

GEOL111-21SU1 (C) Summer (Jan 21)**GEOL111-21S1 (C) Semester 1****GEOL 113 GeoHazards**

15 Points 0.1250 EFTS

'GeoHazards' provides an introduction to the dynamic nature of the Earth's surface and the hazards that geological processes pose for human society. The introductory course focuses on earthquake, volcanic, tsunami, and landslide hazards - exploring how the processes occur, how they can be hazardous to society, analyses disaster events, and identifies strategies that reduce the impact of disasters.

GEOL113-21S2 (C) Semester 2**GEOL 115 The Dynamic Earth System**

15 Points 0.1250 EFTS

The 4.55 billion year story of Earth is a story of constant renewal and interaction among tectonics, rocks, water, plants, animals, soil and air. The Dynamic Earth System teaches you how to read this story present in both the rock record and Earth's modern natural environment.

R: GEOL 112

RP: GEOL 111

GEOL115-21S2 (C) Semester 2**GEOL 237 Special Topic**

15 Points 0.1250 EFTS

Students may only enrol in this Special Topic course on the advice of the Department of Geological Sciences.

P: Subject to approval of the Head of Department.

GEOL237-21S1 (C) Semester 1**GEOL237-21S2 (C) Semester 2****GEOL 240 Field Studies A - Mapping**

15 Points 0.1250 EFTS

Geological mapping involves the observation, recording, presentation and interpretation of field data, all fundamental skills required by practising geologists. Students enrolling in GEOL240 will complete laboratory classes and prepare a geologic map, cross-section, and written report for the Island Hills area of North Canterbury based on field data collected on a fieldtrip held during semester break.

P: GEOL 111 and any 15 points at 100 level from GEOL.

C: 15 points from any of GEOL 242-246 offered in the same semester

GEOL240-21S1 (C) Semester 1

GEOL 241 Field Studies B - Field Techniques

15 Points 0.1250 EFTS

Geological mapping involves the observation, recording and interpretation of field data, and is a fundamental skill required by all practicing geologists. GEOL 241 introduces field techniques applied to metamorphic, igneous and sedimentary rocks, and rock deformation structures, through laboratory classes and field work completed during the August/September semester break.

P: GEOL 111 and any 15 points at 100 level from GEOL

C: 15 points from any of GEOL 242-246 offered in the same semester

R: GEOL 231

GEOL241-21S2 (C) Semester 2**GEOL 242 Rocks, Minerals and Ores**

15 Points 0.1250 EFTS

An introduction to mineralogy, igneous and metamorphic petrology, and related ore deposits, and their use in interpretation of geological environments. Students will be introduced to geologic processes sensitive to pressure, temperature and volatile availability, including magma crystallisation and gold mineralisation.

P: GEOL 111 and any 15 points at 100 level from GEOL

GEOL242-21S1 (C) Semester 1**GEOL 243 Depositional Environments and Stratigraphy**

15 Points 0.1250 EFTS

This course focuses on modern sedimentary environments, oceanography and marine organisms as a key to interpreting depositional environments, and the techniques and approaches that allow geologist to deal with geological time. The fundamental underpinning is stratigraphy, and using sedimentary features and fossils as palaeoenvironment indicators, with particular attention paid to New Zealand examples.

P: GEOL 111 and any 15 points at 100 level from GEOL

GEOL243-21S1 (C) Semester 1**GEOL 244 Structural Geology and Global Geophysics**

15 Points 0.1250 EFTS

Nature and origin of structures produced by deformation in the Earth's crust, and material properties of rocks that affect the way in which they respond. Practical geometric methods associated with deriving and representing the three dimensional form of structures commonly encountered in geological practice, and synthesis of tectonic settings. This course also covers large-scale geometry and processes of plate tectonics, and topics in global geophysics linked to current observation and plate tectonic theory.

P: GEOL 111 and any 15 points at 100 level from GEOL

GEOL244-21S2 (C) Semester 2**GEOL 246 Earth Surface Dynamics**

15 Points 0.1250 EFTS

Earth surface behaviour is a primary interface between geology and society. Knowledge and cultural perspectives of that behaviour therefore inform societal behaviour and development. This course will provide students with the opportunity to acquire the knowledge, skills and attitudes needed to be able to investigate and report on the sustainability of proposed site-specific land-uses in the context of future dynamic Earth surface system behaviours.

P: 30 points from GEOL, MATH, EMTH, ENVR, PHYS at 100 level, or (GEOG 106 and 15 points from GEOL, MATH, EMTH, ENVR, PHYS at 100 level).

RP: GEOL 111; GEOL 113; GEOG 106; 100-level MATH

GEOL246-21S2 (C) Semester 2**GEOL 331 Principles of Basin Analysis**

15 Points 0.1250 EFTS

An introduction to the principles, methods and tools of basin analysis.

P: GEOL 243 and any 15 points at 200 level from GEOL

GEOL331-21S2 (C) Semester 2**GEOL 336 Magmatic Systems and Volcanology**

15 Points 0.1250 EFTS

Study of magmatic systems including the nature and origin of igneous materials and links with the physical processes of volcanology.

P: GEOL 242 and any 15 points at 200 level from GEOL

GEOL336-21S2 (C) Semester 2**GEOL 337 Geothermal and Ore Exploration**

15 Points 0.1250 EFTS

Nature and origin of metallic ore deposits and how to find them, with emphasis on geophysical and geochemical exploration. Mining methods and mining geology.

P: GEOL 242 and any 15 points at 200 level from GEOL

GEOL337-21S1 (C) Semester 1**GEOL 338 Engineering and Mining Geology**

15 Points 0.1250 EFTS

Principles and practices of geology associated with engineering and mining activities.

P: GEOL 242 and GEOL 246

GEOL338-21S2 (C) Semester 2**GEOL 339 Special Topic**

15 Points 0.1250 EFTS

Students may only enrol in this Special Topic course on the advice of the Department of Geological Sciences.

P: Subject to approval of the Head of Department

GEOL339-21S1 (C) Semester 1**GEOL 340 Special Topic**

15 Points 0.1250 EFTS

Students may only enrol in this Special Topic course on the advice of the Department of Geological Sciences.

P: Subject to approval of the Head of Department

GEOL340-21S1 (C) Semester 1**GEOL340-21S2 (C) Semester 2****GEOL 342 Special Topic**

15 Points 0.1250 EFTS

Students may only enrol in this Special Topic course on the advice of the Department of Geological Sciences.

P: Subject to approval of the Head of Department

GEOL342-21S1 (C) Semester 1**GEOL 343 Special Topic**

15 Points 0.1250 EFTS

Students may only enrol in this Special Topic course on the advice of the Department of Geological Sciences.

P: Subject to approval of the Head of Department

GEOL343-21S1 (C) Semester 1**GEOL343-21S2 (C) Semester 2****GEOL 351 Advanced Field Techniques**

15 Points 0.1250 EFTS

Extended field work and related exercises aimed at broadening geological experience in the understanding and interpretation of rocks at outcrop, field map, and regional scales.

P: (1) GEOL 240 and GEOL 241, and (2) GEOL 243 (3) 30 points from other GEOL 200-level courses.

C: 15 points from GEOL 331-357 offered in the same semester.

GEOL351-21S1 (C) Semester 1**GEOL 352 Advanced Field Mapping**

15 Points 0.1250 EFTS

Extended field mapping and related exercises aimed at broadening geological experience in the understanding and interpretation of rocks at outcrop, field map, and regional scales.

P: (1) GEOL 240 and GEOL 241, and (2) GEOL 244 (3) 30 points from other GEOL 200-level courses.

C: 15 points from GEOL 331-357 offered in the same semester.

GEOL352-21X (C) 01 Feb 2021 - 27 June 2021*This course involves fieldwork that takes place in February.***GEOL 354 Geodynamics and Geohazards**

15 Points 0.1250 EFTS

This inter-disciplinary course focuses on the dynamics of potentially hazardous geological events and the connections between geodynamics and societal risk.

P: Any 45 points at 200 level from GEOL

GEOL354-21S1 (C) Semester 1**GEOL 356 Field-focused Research Methods**

30 Points 0.2500 EFTS

P: Subject to approval of the Head of Department.

R: ENVR 356

GEOL356-21X (C) 08 Feb 2021 - 20 June 2021**GEOL356-21S2 (C) Semester 2***This course involves fieldwork that takes place in January and February.*

GEOL 357 Topics in New Zealand Geology

15 Points 0.1250 EFTS

This course examines New Zealand geology in a regional and global context of tectonics, climate, and oceanographic events. Topics covered will include tectonics, resources and the geological development of New Zealand. The course aims to develop student's research, presentation and written communication, and geological synthesis skills, and to build an understanding of New Zealand geology relevant to our future. This course is seen as a capstone course for BSc students, and useful preparation for those going on to postgraduate study.

P: Any 45 points at 200 level from GEOL

GEOL357-21S2 (C) Semester 2

Tāura | Postgraduate

Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.

GEOL 470 Research Project

30 Points 0.2500 EFTS

This course will comprise a research project under the guidance of a chosen supervisor. The research project will be of an appropriate size for 30 points and may include summer field work. The results will be written up in a project report and will be presented as a talk to the department.

P: GEOL 351, GEOL 352 and 60 points from GEOL 300 level courses.

C: 90 points from GEOL 400 level choices or relevant 400 level courses from other departments with Head of Department approval

R: GEOL 490

RP: BSc in Geology

GEOL470-21A (C) Starts Anytime

Limited entry. See limitation of entry regulations.

GEOL 473 Structural Geology

15 Points 0.1250 EFTS

This course will focus on tectonic and structural aspects of convergent and divergent plate margins. It will give an overview on subduction zones, collisional orogens as well as extensional margins and rift. We will be seeking to discover what structural geology can tell us about mountain building processes, relationships between deformation and metamorphism and the feedback between tectonics and climate.

P: Subject to approval of the Head of Department.

GEOL473-21S2 (C) Semester 2

GEOL 474 Igneous Petrology and Geochemistry

15 Points 0.1250 EFTS

This course will concentrate on the geochemical aspects of igneous petrology. At every stage we will be seeking to discover what magma chemistry can tell us about the nature of igneous processes and the relationships between igneous rocks. Following coverage of "core material" we will discuss particular igneous processes, the petrogenesis of certain rock suites and select some of the "hot topics" in igneous petrology.

P: Subject to approval of the Head of Department.

GEOL474-21S1 (C) Semester 1

GEOL 476 Physical Volcanology

15 Points 0.1250 EFTS

This course aims to provide students with an understanding of the physical processes that influence volcanic deposits resulting from both effusive and explosive eruptions. Topics range from the magma reservoir and conduit to the final resting place of volcanic deposits and specifically include the physical properties of magmas, dynamics of lava flows and domes, structure and origin of calderas, explosive eruptions, pyroclastic flows and surges, debris avalanches, lahars, submarine volcanism and magmatic hydrothermal/geothermal systems. There is a compulsory field trip for this course run early in February.

P: Subject to approval of the Head of Department.

GEOL476-21X (C) 18 Jan 2021 - 27 June 2021

GEOL 478 Sedimentary Facies and Basin Analysis

15 Points 0.1250 EFTS

This course will focus on depositional facies in different types of sedimentary basins. Sedimentary systems respond to tectonically controlled basin structures which also affect subsidence and basin geometry. Tectonic setting also determines the prevalence of volcanism which can interact with sedimentary processes. Seminar topics will be based on depositional settings and put into the context of tectonic setting with an emphasis on how it can be applied to petroleum systems. As such, understanding basin geometry and the response of sedimentary processes to basin bounding structures will frame the discussion. Day trips in the field will look at outcrop from a petroleum systems perspective. Seminars will be structured around topics that will vary depending on student interests.

P: Subject to approval of the Head of Department.

GEOL478-21S2 (C) Semester 2

GEOL 479 Active Tectonics and Geomorphology

15 Points 0.1250 EFTS

Active deformation is explored in this course, introducing the criteria by which active deformation can be identified and located. The emphasis is on the interaction between tectonic and other geomorphic processes in shaping the landscape and the way in which the nature of the underlying deformation can be identified and quantified from an analysis of topography.

P: Subject to approval of the Head of Department.

GEOL479-21S1 (C) Semester 1

GEOL 481 Applied Palaeobiology

15 Points 0.1250 EFTS

This course covers the application and interpretation of micro- and macrofossil data in the analysis of palaeoenvironments, along with taphonomy and bias in the fossil record, and aspects of New Zealand palaeobiogeography, through field and laboratory research projects and seminar based classes.

P: Subject to approval of the Head of Department.

GEOL481-21S1 (C) Semester 1

GEOL 483 Coal and Environmental Geology

15 Points 0.1250 EFTS

The majority of the world's energy comes from fossil fuels. In New Zealand, Australasia and Asia, oil and gas are derived ultimately from coal and coal-bearing strata. Therefore, any exploration of oil and gas must be well founded in a basic understanding of coal geology. The use of coal and other carbon-based energy sources presents many challenges, not only in exploration but also in the downstream environmental effects. Today's geologists need to understand those consequences and risks.

P: Subject to approval of the Head of Department.

GEOL483-21S2 (C) Semester 2

GEOL 484 Special Topic

15 Points 0.1250 EFTS

P: Subject to approval of the Head of Department.

GEOL484-21S2 (C) Semester 2

GEOL 485 Special Topic

15 Points 0.1250 EFTS

P: Subject to approval of the Head of Department.

GEOL485-21S1 (C) Semester 1

GEOL485-21S2 (C) Semester 2

GEOL 491 Independent Course of Study

15 Points 0.1250 EFTS

P: Subject to approval of the Head of Department.

GEOL491-21A (C) Starts Anytime

GEOL 690 MSc Thesis

120 Points 1.0000 EFTS

P: Subject to approval of the Head of Department.

GEOL690-21A (C) Starts Anytime

Part-time enrolment (0.65 EFTS) is available on approval.

GEOL 790 Geology PhD

120 Points 1.0000 EFTS

P: Subject to approval of the Head of Department.

GEOL790-21A (C) Starts Anytime

Part-time enrolment (0.65 EFTS) is available on approval. *From 1 January 2008, international students who are residing in New Zealand on a NZ Immigration Study Visa pay the Domestic Fee for this course. International fees apply for all other courses.

German

School of Language, Social and Political Sciences

GRMN 151 Elementary German Language A

15 Points 0.1250 EFTS

German language course for beginners, i.e. students with no knowledge of German, based on the communicative approach.

R: GRMN 106, GRMN 114

GRMN151-21S1 (C) Semester 1

GRMN151-21S1 (D) Semester 1

GRMN 152 Elementary German Language B

15 Points 0.1250 EFTS

A German language course that follows on from GRMN 151, based on the communicative approach.

P: GRMN 151, 20 Level 2 NCEA credits, or placement test.

R: GRMN 115, GRMN 106

GRMN152-21S2 (C) Semester 2

GRMN152-21S2 (D) Semester 2

GRMN 251 Intermediate German Language A

15 Points 0.1250 EFTS

This is the first of two intermediate German language courses. This course aims at extending vocabulary and grammatical structures which will be used to discuss and write about simple topics in contemporary German and German-speaking culture and society.

P: GRMN 152, or 20 credits at NCEA Level 3 German, or a placement test. Note: Students with Level 2 NCEA should apply to take an online placement test.

R: GRMN 108, GRMN 117

GRMN251-21S1 (D) Semester 1

GRMN251-21S1 (C) Semester 1

GRMN 252 Intermediate German Language B

15 Points 0.1250 EFTS

This is the second of two intermediate German language courses. This course extends the reading, writing and discussion skills acquired in GRMN251 and places greater emphasis on writing and reading skills, including the reading of short stories.

P: GRMN 251, or placement test. Note: The course assumes a relatively high level of proficiency in German language. Even well prepared high school students should therefore enrol in GRMN 251.

R: GRMN 108, GRMN 118

GRMN252-21S2 (D) Semester 2

GRMN252-21S2 (C) Semester 2

GRMN 351 Advanced German Language A

30 Points 0.2500 EFTS

This is the first of two advanced German language courses. The course aims at improving the students' all-round knowledge of contemporary German including knowledge of stylistic and regional variation.

P: GRMN 252

R: GRMN 210, GRMN 211, GRMN 301, GRMN 310, GRMN 311

GRMN351-21S1 (D) Semester 1

GRMN351-21S1 (C) Semester 1

GRMN 352 Advanced German Language B

30 Points 0.2500 EFTS

This is the second of two advanced German language courses. It aims at improving the students' all-round knowledge of contemporary German including knowledge of stylistic and regional variation. In addition students' reading and writing skills will be enhanced through work on a fictional text.

P: GRMN 351

R: GRMN 211, GRMN 301, GRMN 310, GRMN 311

GRMN352-21S2 (D) Semester 2

GRMN352-21S2 (C) Semester 2

PACE 395 Internship

30 Points 0.2500 EFTS

What can you do with your major? With your degree? The purpose of the internship course is to explore both the ideological and practical assumptions guiding this question. The course is designed to be a critical, theoretical and "real-world" examination of the practices and ideologies inherent in both community and business organisations. You will apply the analytical skills acquired through your major, and through class seminars and readings, to a project designed by a local company or community group. Please check out the website for further information and specific project descriptions: www.arts.canterbury.ac.nz/internships

P: 150 points, special application and interview, and permission of the Internship Director.

R: ARTS 395

EQ: ARTS 395

PACE395-20SU2 (C)

Summer (Nov 20)

PACE395-21A (C)

Starts Anytime

PACE395-21S1 (C)

Semester 1

PACE395-21S2 (C)

Semester 2

Limited entry. See limitation of entry regulations. A student will be selected for a specific project. Only students accepted for projects will be allowed into the course. Please go to <http://www.arts.canterbury.ac.nz/internships> for more information.

Taura | Postgraduate

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GRMN 401 German Language

30 Points 0.2500 EFTS

P: Subject to approval of the Programme Director.

GRMN401-21S2 (C) Semester 2

GRMN 480 Research Essay

30 Points 0.2500 EFTS

P: Subject to approval of the Programme Director.

GRMN480-21S2 (C) Semester 2

GRMN 650 MA Dissertation

60 Points 0.5000 EFTS

MA Dissertation

P: Subject to approval of the Head of Department.

GRMN650-21A (C) Starts Anytime

GRMN650-21S1 (C) Semester 1

GRMN650-21S2 (C) Semester 2

GRMN 690 MA Thesis

120 Points 1.0000 EFTS

P: Subject to approval of the Programme Director.

GRMN690-21A (C) Starts Anytime

Part-time enrolment (0.65 EFTS) is available on approval.

LANC 401 In Other Words What? Theory and Practice of Translation

30 Points 0.2500 EFTS

An introduction to Translation Studies for students skilled in two or more languages, including aspects of modern theory and practice in the craft of accurate translation.

P: Subject to approval of the Head of Programme.

LANC401-21S1 (C) Semester 1

GRMN 790 German PhD

120 Points 1.0000 EFTS

P: Subject to approval of the Head of School.

GRMN790-21A (C) Starts Anytime

*Part-time enrolment (0.65 EFTS) is available on approval. *From 1 January 2008, international students who are residing in New Zealand on a NZ Immigration Study Visa pay the Domestic Fee for this course. International fees apply for all other courses.*

Graphic Design

School of Fine Arts

DESI 211 Graphic Design 2A

45 Points 0.3750 EFTS

Students will be introduced to developing technical competence in, and broad operational of, theoretical knowledge within the specialised studio discipline. Projects relating to the conventions and techniques of Graphic Design practice, participation in group meetings, critiques, reading groups and critical reflections, documentation of all work.

P: FINA 103, or subject to approval of the Head of the School of Fine Arts. Entry to this course is limited.

DESI211-21S1 (C) Semester 1

Limited entry. See limitation of entry regulations.

DESI 212 Graphic Design 2B

45 Points 0.3750 EFTS

Students will continue the development of technical competence in, and broad operational of, theoretical knowledge within the specialised studio discipline. Projects relating to the

conventions and techniques of Graphic Design practice, participation in group meetings, critiques, reading groups and critical reflections, documentation of all work.
P: DESI 211, or subject to approval of the Head of the School of Fine Arts. Entry to this course is limited.
DESI212-21S2 (C) Semester 2
Limited entry. See limitation of entry regulations.

DESI 311 Graphic Design 3
90 Points 0.7500 EFTS
P: DESI 212
DESI311-21W (C) Whole Year (S1 and S2)
Limited entry. See limitation of entry regulations.

DESI 411 Graphic Design 4
90 Points 0.7500 EFTS
P: DESI 311
DESI411-21W (C) Whole Year (S1 and S2)
Limited entry. See limitation of entry regulations.

Tāura | Postgraduate

Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.

DESI 601 Graphic Design
120 Points 1.0000 EFTS
P: Subject to approval of the Head of School.
DESI601-21A (C) Starts Anytime

Hazard and Disaster Management

Department of Geological Sciences

Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.

DRRE 403 Disaster Risk and Resilience Applications
15 Points 0.1250 EFTS
The DRRE403 course develops students' applied research and practical skills, with a focus on disaster risk and resilience. A strong focus of the course is on developing disaster-related communication skills and confidence, during both crisis and non-crisis situations. Students are introduced to contemporary approaches to decision-making under uncertainty, and disaster ethics, and develop transferrable fundamental skills through writing literature reviews and formal research proposals, and by conducting poster and oral presentations. Practical, applied skills are developed through participation in dynamic disaster simulations (including a mock press conference with the UC Journalism programme), and through writing policy briefs for senior leadership (e.g. government ministers).
P: Programme Director approval.
R: HAZM 403
RP: DRRE 401
DRRE403-21S2 (C) Semester 2

HAZM 790 Hazards and Disasters PhD
120 Points 1.0000 EFTS
P: Subject to approval of the Programme Director, Department of Geological Sciences
HAZM790-21A (C) Starts Anytime
Part-time enrolment (0.65 EFTS) is available on approval. *From 1 January 2008, international students who are residing in New Zealand on a NZ Immigration Study Visa pay the Domestic Fee for this course. International fees apply for all other courses.

Health Sciences

School of Health Sciences

HLED 121 Introduction to Health Education
15 Points 0.1250 EFTS
This course is designed to be an introduction to Health Education through the exploration of fundamental and underlying concepts. It explores and applies the Māori concept of Hauora to the wellbeing of self, relationships, and a range of populations. Students will examine the historical underpinnings of Health Education and develop an in-depth knowledge of current best practice. They will identify health issues that constitute barriers to learning and explore strategies and agencies that work to address these. A strong focus on the conceptual framework of Health education and the socio-cultural factors that determine the wellbeing of a population will be explored.
HLED121-21S1 (C) Semester 1

HLED 122 Building Resilience
15 Points 0.1250 EFTS
This course is designed as an introduction to the concept of mental health. It examines concepts of mental health and resilience and considers these in relation to the determinants of health. The course develops students' understanding of models of best practice in mental health education and promotion. Students will explore a range of mental health issues and demonstrate a range of strategies designed to enhance their own and others' mental health.
HLED122-21S2 (C) Semester 2

HLTH 101 Introduction to Health Studies
15 Points 0.1250 EFTS
Social, economic, cultural, environmental and psychological factors affect the health of people living in Aotearoa New Zealand. In this course, students develop strategies for gathering information about causes of ill health, investigate effects of ill health, and evaluate the effectiveness of health-related policies and interventions. During the second part of the course expert guest lecturers introduce their research on mental well-being, adolescent health, and problematic substance use. Students use local and international research to investigate a health problem and present that research in a well-structured, well-referenced report.
HLTH101-21S1 (C) Semester 1
HLTH101-21S1 (D) Semester 1

HLTH 106 Te Wero - Māori Health Issues and Opportunities
15 Points 0.1250 EFTS
This course introduces students to a selection of historical and contemporary Māori health content within a Treaty of Waitangi framework, to support robust analyses of Māori population health issues. Exploring what Māori health was and is, students will be challenged to consider the promise of Māori health and its significance for current and future Aotearoa New Zealand.
HLTH106-21S2 (C) Semester 2

HLTH 110 Epidemiology
15 Points 0.1250 EFTS
This course introduces students to the measurement of health and disease in populations. Students will learn about defining and measuring health and disease. The course will cover quantitative methods to assess health and disease, including introductory epidemiology and biostatistics.
HLTH110-21S1 (C) Semester 1

HLTH 111 Global Health
15 Points 0.1250 EFTS
Global health challenges cross international borders and responses require international cooperation. In this course we explore (1) the key and emerging challenges and opportunities facing global health, (2) major public health developments that have improved health outcomes for all and (3) identify how economic and political processes have shaped responses to global health problems.
RP: HLTH 101
HLTH111-21S2 (C) Semester 2

HLED 221 Models of Health Education
15 Points 0.1250 EFTS
This course introduces students to theoretical models utilised within Health Education and promotion. It equips students with the skills required to apply their understanding of the models to a range of diverse needs and in a variety of settings. Community engagement and practical workshops enable students to develop an understanding of all stages of programme planning and the facilitation skills required to run education workshops.
P: HLED 121
HLED221-21S1 (C) Semester 1

HLED 222 Sexualities Education
15 Points 0.1250 EFTS
This course examines current debates, issues and practices of sexuality education. Students will explore the historical and contemporary influences on the delivery of sexuality education and develop knowledge in relation to sexuality and sexual health practices. A focus will be on examining and reframing debates around the nature of sexuality education content and delivery underpinned by an exploration of ethical values and mental health. Topics will include interpersonal skills to enhance relationships, pleasure pedagogy, relationships, gender, the sex industry, sexuality and disability, safer sex practices, the role of the media, strategies for enhancing sexual health and a positive sexuality.
P: HLED 121 or HLED 122 or HLTH 101
HLED222-21S1 (C) Semester 1

HLED 223 Physical activity promotion
15 Points 0.1250 EFTS
This course equips students with the knowledge, skills, and understandings necessary to develop programmes that enhance the physical activity of people in Aotearoa. Students will explore how the determinants of health influence physical activity, and research effective health promotion strategies. An opportunity for health promotion experience will provide students with practical skills.
P: HLED 121 or HLED 122 or HLTH 101
HLED223-21S2 (C) Semester 2

HLTH 201 Health Promotion

15 Points 0.1250 EFTS

This course will provide an understanding of the differing ways in which the health needs of a population or society may be perceived, assessed and addressed, and how health may be promoted through legislated and policy measures, and community based health promotion or preventive programmes.

P: Any 60 points at 100 level from any subject, or any 30 points at 100 level from HLTH or SPCO

HLTH201-21S2 (C) Semester 2**HLTH 202 Health and Society: Applied Research for Aotearoa**

15 Points 0.1250 EFTS

This course introduces students to social and political changes shaping health and health care in Aotearoa. Through applied research, students will develop introductory skills in social science research methods to understand major population health challenges facing Aotearoa.

P: Any 60 points at 100 level from any subject.

HLTH202-21S2 (C) Semester 2**HLTH 213 Health Systems and Policy**

15 Points 0.1250 EFTS

This course introduces students to the history and organisation of health services and public health, with particular relevance to New Zealand. Students will develop an understanding of the structure and function of the New Zealand health system, including the provision, planning, and funding of health services.

P: Any 60 points at 100 level from any subject, or any 30 points at 100 level from HLTH or SPCO

HLTH213-21S1 (C) Semester 1**HLTH 214 Environmental and Occupational Health**

15 Points 0.1250 EFTS

This course will introduce students to environmental and occupational health, including population interventions designed to improve health through prevention, early detection, communicable disease control, emergency preparedness, and global health interventions.

P: Any 60 points at 100 level from any subject, or any 30 points at 100 level from HLTH or SPCO

HLTH214-21S2 (C) Semester 2**HLED 321 Health Education in Practice - INTERNSHIP**

15 Points 0.1250 EFTS

What can students do with their studies in Health Sciences? The course is designed to be a critical, theoretical, and real world examination of the practices and ideologies inherent in the delivery of health programmes in a range of settings. Students will apply the knowledge and skills developed in previous courses to a project developed in collaboration with external health providers.

P: Any 60 points at 200 level from any subject including HLTH 201, HLTH 202, and MAOR 270.

HLED321-21S1 (C) Semester 1**HLED321-21S2 (C) Semester 2****HLED 322 Critical Analysis of Contemporary Health Issues**

15 Points 0.1250 EFTS

Students will critically examine and debate a range of health issues they have encountered in earlier courses, through the media and in their internships. Students will analyse the determinants influencing health issues, and the related implications and consequences for a diverse range of clientele. They will provide recommendations for addressing issues and enhancing wellbeing through effective health education strategies.

P: Any 60 points at 200 level or above from any subject including 45 points from Health Science (HLTH, HLPa and HLED) at 200 level or above.

HLED322-21S2 (C) Semester 2**HLTH 301 Evidence in Health**

30 Points 0.2500 EFTS

This course will provide students with an understanding of ways in which evidence is used in health decision making, in health promotion, clinical care and health policy, and the social science tools which underpin much health research.

P: Any 30 points at 200 level from Health Science (HLTH, HLPa and HLED).

HLTH301-21S2 (C) Semester 2**HLTH 312 Health Planning, Implementation and Evaluation**

15 Points 0.1250 EFTS

This course introduces students to the importance of planning and evaluation in the health sector. Students will become familiar with planning and evaluation tools and approaches commonly used in public health, and will learn how to ensure that plans meet current health sector needs and priorities, including how the cultural context affects the planning and delivery of public health interventions.

P: Any 30 points at 200 level from Health Science (HLTH, HLPa and HLED).

HLTH312-21S2 (C) Semester 2**Tāura | Postgraduate**

Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.

COUN 682 Focused Acceptance and Commitment Therapy (FACT)

15 Points 0.1250 EFTS

Focused Acceptance and Commitment Therapy introduces students to theory and practice guidelines that support an understanding of the responsibilities involved in providing Focused Acceptance and Commitment Therapy (FACT) to individuals seeking psychological support. It focuses on developing practitioners' technical and relational issues when delivering FACT in primary care and other settings.

P: Subject to the approval of the Head of Department.

COUN682-21S2 (D) Semester 2**HLTH 401 Health and Health Systems**

30 Points 0.2500 EFTS

This course examines international health and health systems, including the determinants of health, health status and health inequalities and the way health systems are organised to meet these challenges. This provides a context for detailed examination of issues facing health and health services in New Zealand and elsewhere.

P: Subject to the approval of the Head of School

R: HLTH 601

EQ: HLTH 601

HLTH401-21S1 (M) Semester 1**HLTH 402 Health Information Management**

30 Points 0.2500 EFTS

This course examines how Information Technology meets the information needs of health provider organisations, practitioners, and consumers and how IT can play a significant and positive role in the provision of healthcare services.

P: Subject to approval of the Head of School

HLTH402-21S2 (C) Semester 2**HLTH402-21S2 (D) Semester 2****HLTH 403 Environmental Health**

30 Points 0.2500 EFTS

Environmental health is an integral aspect of the health of a community. Risks to environmental health include pollution, unsafe foods, and infectious diseases, and many of these risks are increasing as a result of growing populations globally, and the effects of climate change. This course provides the foundation for students to understand environmental health.

HLTH403-21S2 (D) Semester 2**HLTH403-21S2 (M) Semester 2****HLTH 405 Special Topic: Independent Study**

30 Points 0.2500 EFTS

This course allows for supervised research in an area of personal interest. It is of particular value for health professionals who want to examine a health related issue in depth, and develop research expertise.

P: Subject to approval of the Head of School

R: HLTH 605

EQ: HLTH 605

HLTH405-21A (D) Starts Anytime**HLTH 407 Bioethics**

30 Points 0.2500 EFTS

This course provides an overview of moral theories, and explores why moral dilemmas arise and contexts in which ethical decision-making may occur. Legal, regulatory and policy frameworks that specify the responsibilities of those making ethical decisions in the delivery of health care are also explored. Students are taught critical appraisal techniques and share the experiences of professionals from a wide variety of disciplines who are faced with real life dilemmas and have to make ethical decisions daily.

P: Subject to approval of the Head of School

R: HLTH 433, HLTH 434, HLTH 607, PHIL 325, PHIL 433, PHIL 434, PHIL 474

EQ: HLTH 607

HLTH407-21S1 (M) Semester 1**HLTH 408 Special Topic: Independent Study**

15 Points 0.1250 EFTS

This course allows for supervised research in an area of personal interest. It is of particular value for health professionals who want to examine a health related issue in depth, and develop research expertise.

P: Subject to approval of the Head of School

HLTH408-21A (D) Starts Anytime**HLTH408-21S2 (M) Semester 2**

HLTH 410 Leading and Motivating People in Healthcare Organizations

30 Points 0.2500 EFTS

This course provides students with a platform to effectively lead, manage, motivate and change New Zealand health sector organisations and the people who work in them.

P: Subject to approval of the Head of School

HLTH410-21S1 (C) Semester 1

HLTH410-21S1 (D) Semester 1

HLTH 430 Motivating Behaviour Change I

30 Points 0.2500 EFTS

This course provides introductory training in motivating behaviour change, including theory, research and practice, with particular emphasis on motivational interviewing.

P: Subject to approval of the Head of School

HLTH430-21S1 (M) Semester 1

HLTH 431 Motivating Behaviour Change II

30 Points 0.2500 EFTS

This course provides advanced training in motivating behaviour change, including theory, research and practice, with particular emphasis on motivational interviewing.

P: Subject to approval of the Head of School, and HLTH 430

HLTH431-21S2 (M) Semester 2

HLTH 433 Bioethics A

15 Points 0.1250 EFTS

This course examines frameworks for moral decision making in the health sector.

P: Subject to approval of the Head of School

R: HLTH 407, HLTH 607, PHIL 474

EQ: PHIL 474

HLTH433-21T1 (M) 22 Feb 2021 - 04 Apr 2021

HLTH 442 Special Topic: Research Related to Complementary and Alternative/Integrative Medicine (CAM/IM)

30 Points 0.2500 EFTS

This course examines issues related to research in Complementary and Alternative/Integrative Medicine, including specific issues in CAM/IM research, as well as research design, data collection and data analysis, ethical issues and dissemination of results. Participants will receive individual mentoring for a research proposal of their choice.

P: Subject to approval of the Head of School

HLTH442-21S2 (M) Semester 2

HLTH 448 The Foundation of Hospice Palliative Care

30 Points 0.2500 EFTS

This course is designed around four themes: understanding and caring for self, understanding others; caring for the person, family and whānau living with a terminal illness; the practice of palliative care (therapeutic interventions and treatment modalities); creating and maintaining a centre of excellence and learning. It provides knowledge that is foundational to practice in the area, and introduces the participant to relevant theory, research and critical reflection that is deemed essential to palliative care practice.

P: Subject to approval of the Head of School

HLTH448-21X (D) 25 Jan 2021 - 02 May 2021

HLTH 449 Praxis in Hospice Palliative Care

30 Points 0.2500 EFTS

This course is designed around the four themes in HLTH 448 with increasing integration of each theme to increase the student's understanding of the field of palliative care. It provides an opportunity for the further development of praxis as the participant works on the application of theory, research and reflection in action to provide evidence based care.

P: Subject to approval of the Head of School

HLTH449-21X (D) 14 June 2021 - 03 Oct 2021

HLTH 450 Palliative Care: Advanced Theory and Practice

30 Points 0.2500 EFTS

The course will explore historical, political and philosophical concepts and issues in relation to palliative care across the lifespan. Students from different professional backgrounds will learn together in order to explore, reflect and extend the range of their palliative practice. International, national and local community influences will be explored.

P: Subject to approval of the Head of School

HLTH450-21X (D) 21 June 2021 - 31 Oct 2021

HLTH 460 Epidemiology and Critical Appraisal

30 Points 0.2500 EFTS

The purpose of this course is to develop skills and knowledge of critical appraisal of health research. Upon completion of this course, students will develop or enhance skills and understanding necessary for interpretation of research designs, analysis of health research data, reports, review of literature, and gain skills that will enable them to successfully write grants and research proposals.

P: Subject to approval of the Head of School.

R: HLTH 462

HLTH460-21S1 (D) Semester 1

HLTH460-21S1 (M) Semester 1

HLTH 461 Special Topic

30 Points 0.2500 EFTS

P: Subject to approval of the Director, Health Sciences Centre

HLTH461-21S2 (C) Semester 2

HLTH 462 Quantitative Methods in Health

15 Points 0.1250 EFTS

This course will provide students with an understanding of key quantitative methodological issues in health research from the perspective of research designs and development of current best evidence in health.

P: Subject to approval of the Head of School

R: HLTH 460

HLTH462-21S2 (C) Semester 2

HLTH 463 Whānau and Community Health

30 Points 0.2500 EFTS

This course will enable students to design, implement and critically analyse interventions in response to socio-ecological influences on whānau and community health in a health care context.

P: Subject to approval of the Head of School of Health Sciences

R: HLTH 456

HLTH463-21S1 (M) Semester 1

HLTH 464 Research Approaches for Health and Sport

30 Points 0.2500 EFTS

This course will develop students' specialist knowledge and skills to support postgraduate research and/or industry led projects. Philosophical, ethical and methodological issues influencing research design will be examined and applied to researching health or sport related issues.

P: Subject to approval of the Head of School of Health Sciences.

HLTH464-21S1 (C) Semester 1

HLTH 465 Professional Frameworks for Nursing Practice

30 Points 0.2500 EFTS

This course will enable students to understand the responsibilities of nursing and the inter-professional team, to communicate professionally and to understand ethical, legal and regulatory frameworks for health care delivery and practice.

P: Subject to approval of the Head of School of Health Sciences

R: HLTH 452

HLTH465-21X (M) 15 Feb 2021 - 06 June 2021

Limited entry. See limitation of entry regulations.

HLTH 466 Health Assessment, Physiology and Pharmacology for Clinical Practice

30 Points 0.2500 EFTS

This course will enable students to gain the health assessment, bioscience and pharmacology knowledge and skills required to understand disease processes, the rationale for interventions and how drugs affect the body.

P: Subject to approval of the Head of School of Health Sciences.

R: HLTH 453

HLTH466-21S1 (M) Semester 1

Limited entry. See limitation of entry regulations.

HLTH 467 Mental Health and Addictions

30 Points 0.2500 EFTS

This course will enable students to select, critically analyse and apply theoretical frameworks related to mental health and addiction across the lifespan and their impact on individuals and family/whānau.

P: Subject to the approval of the Head of School of Health Sciences

R: HLTH 454

HLTH467-21X (M) 12 July 2021 - 17 Oct 2021

Limited entry. See limitation of entry regulations.

HLTH 468 Acute and Long Term Health Care

30 Points 0.2500 EFTS

This course will introduce students to health service contexts and the complexity of care across a range of settings. This is achieved through comprehensive health assessment and the design of care plans leading to considered interventions underpinned by evidence based practice.

P: Subject to approval of the Head of School of Health Sciences

R: HLTH 455

HLTH468-21X (M) 12 July 2021 - 17 Oct 2021*Limited entry. See limitation of entry regulations.***HLTH 469 Health Issues in the Community**

30 Points 0.2500 EFTS

This course provides the foundation for students to understand the health issues in the community and to develop skills related to improving it. Students are introduced to the concepts, practices and skills to effect better health and wellbeing within communities.

HLTH469-21S2 (C) Semester 2**HLTH 472 Introduction to Psychometric Theory and Administration**

15 Points 0.1250 EFTS

This course covers psychometric theory and familiarises students with the construction, administration and interpretation of psychometric instruments which are not restricted to Registered Psychologists.

P: Subject to approval of the Head of School

R: EDUC 624, HLTH 671

HLTH472-21S1 (C) Semester 1**HLTH 690 MHealSc Thesis**

120 Points 1.0000 EFTS

P: Subject to approval of the Head of School

HLTH690-21A (D) Starts Anytime*Part-time enrolment (0.65 EFTS) is available on approval.***HLTH 695 Health Sciences Dissertation**

60 Points 0.5000 EFTS

P: Subject to approval of the Head of School

HLTH695-21A (D) Starts Anytime**HLTH 697 Health Sciences Thesis**

90 Points 0.7500 EFTS

P: Subject to approval of the Head of School

HLTH697-21A (D) Starts Anytime*Part-time enrolment (0.65 EFTS) is available on approval.***HLTH 790 Health Sciences PhD**

120 Points 1.0000 EFTS

P: Subject to approval of the Head of School of Health Sciences

HLTH790-21A (C) Starts Anytime

*Part-time enrolment (0.65 EFTS) is available on approval. *From 1 January 2008, international students who are residing in New Zealand on a NZ Immigration Study Visa pay the Domestic Fee for this course. International fees apply for all other courses.*

Higher Education

School of Educational Studies and Leadership

Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.

HEDN 601 Introduction to Tertiary Teaching

15 Points 0.1250 EFTS

A critical examination of personal theories of tertiary teaching within a comparative framework of contemporary literature and practice.

P: Subject to approval of the Programme Coordinator

R: HEDN 501, HEDN 502

HEDN601-21X (C) 22 Feb 2021 - 07 Nov 2021**HEDN 602 Tertiary Teaching Methods**

15 Points 0.1250 EFTS

Examination of contemporary research on student learning. Exploration of the effects of participant's teaching methods on how students learn in order to enhance student learning outcomes.

P: Subject to approval of the Programme Coordinator

R: HEDN 501, HEDN 502

HEDN602-21X (C) 19 July 2021 - 13 Feb 2022**HEDN 603 Learning Design and Assessment in Tertiary Teaching**

15 Points 0.1250 EFTS

This course examines contemporary research on learning design and assessment in tertiary teaching, and explores learning and assessment design practices in order to enhance student learning outcomes.

P: Subject to approval of the Programme Coordinator

R: HEDN 501, HEDN 502

HEDN603-21X (C) 22 Feb 2021 - 07 Nov 2021**HEDN 604 Research in Tertiary Teaching and Learning**

15 Points 0.1250 EFTS

In this capstone course of the Postgraduate Certificate in Tertiary Teaching we will study the Scholarship of Teaching and Learning. The course aims to provide participants with the knowledge and skills to set up, conduct, and report on (action) research into an aspect of teaching and learning in the tertiary context. You are encouraged to do a research project based on your own teaching practice, so you can use the results to inform further development of your teaching. The foci of the course are on formulating an educational research question, developing the study design and methodology, and human ethics considerations.

P: HEDN 601 and HEDN 602 and HEDN 603; or approval of the Programme Coordinator

R: HEDN 501, HEDN 502

HEDN604-21X (C) 19 July 2021 - 13 Feb 2022**HEDN 790 Higher Education PhD**

120 Points 1.0000 EFTS

P: Subject to approval of the Head of Department.

HEDN790-21A (C) Starts Anytime

*Part-time enrolment (0.65 EFTS) is available on approval. *From 1 January 2008, international students who are residing in New Zealand on a NZ Immigration Study Visa pay the Domestic Fee for this course. International fees apply for all other courses.*

History

School of Humanities and Creative Arts**HIST 127 American History**

15 Points 0.1250 EFTS

The history of British America and the US from 1492 to the present.

R: HIST 119, HIST 120, AMST 127

EQ: AMST 127

HIST127-21S2 (C) Semester 2**HIST 133 Medieval Europe: from Rome to the Black Death**

15 Points 0.1250 EFTS

A survey course covering a range of themes in Western European history including social and economic developments, government, religion and warfare (c. 300 - 1400).

R: HIST 125, HIST 130

HIST133-21S1 (C) Semester 1**HIST 136 Revolutions and Revolutionaries**

15 Points 0.1250 EFTS

This course explores the nature of revolutions and their role in shaping the modern world. After looking at various definitions of the term 'revolution', and a range of historical approaches to the study of revolutions, the course looks in turn at a series of case studies such as the American, French and Russian revolutions, and their causes, course and consequences.

R: HIST 123

HIST136-21S1 (C) Semester 1**HIST 137 Modern World History**

15 Points 0.1250 EFTS

This course explores some of the major ideas and events that have shaped world history since 1945 and asks: Which are stronger, the forces for world unity or the forces for fragmentation? The first half of the course looks at the immediate post-war period. This is the time when Europe declines, European colonies become new nations and the United States of America (U.S.A.) gains power. It is the time of the Cold War when the world is divided by 'an iron curtain' between western capitalist states led by the U.S.A. and eastern bloc communist states centered on the Union of Soviet Socialist Republics (USSR). The second half of the course looks at the world after the collapse of communism. We study the global impacts of the struggle for resources and the increasing prominence of terrorism in the modern world.

HIST137-21S2 (C) Semester 2

HIST 235 Tsardom to Empire: Russian History 1480 to 1917

15 Points 0.1250 EFTS

This course explores aspects of social, political, economic, cultural, religious, and intellectual history of Russia prior to 1917, with a particular emphasis on the autocratic tradition as developed from 1480 onwards. The course also investigates the making of the Russian Empire while also examining ways in which political forces unique to Russia shaped the country's cultural specificity in the European context.

P: Any 15 points at 100 level in HIST, EURA, or RUSS, or CLAS 120, or any 60 points at 100 level from the Schedule V of the BA.

R: HIST 138, HIST 335, RUSS 111, RUSS 235, RUSS 335, EURA 235, EURA 335

EQ: RUSS 235, EURA 235

HIST235-21S2 (C)

Semester 2

HIST 239 The First World War: Total War in Europe

15 Points 0.1250 EFTS

The First World War is often described as a total war. Between 1914 and 1918 over 9 million combatants were killed and European nations deliberately targeted civilians for attack. Governments gave themselves extraordinary powers over people's lives as they tried to turn whole societies, economies and cultures to the war effort. The results of this ranged from social and political reform to revolution, genocide and the collapse of empires. Students will explore the war's impacts on the people of Europe, investigating its origins; military, political and social developments; and the legacies of both peace diplomacy and war cultures. Focusing primarily on Britain, France and Germany, this course asks how the experience and endurance of total war affected Europe, and what this meant for the modern world.

P: Any 15 points at 100 level in HIST or CLAS 120, or any 60 points at 100 level from the Schedule V of the BA.

R: HIST 301, HIST 302, HIST 305, HIST 339

HIST239-21S1 (C)

Semester 1

HIST 243 Kiwi Culture

15 Points 0.1250 EFTS

This course explores the invention of kiwi culture from first Māori contact with Europeans to Peter Jackson's Lord of the Rings films. Key questions asked are: How has national identity formed? What kiwi traditions have emerged? Who is a New Zealander and who is excluded from dominant concepts of nation? What aspects of culture are indigenous and how much is copied from overseas? Topics under examination include key defining moments, peacekeeping, sport and leisure, food, beauty, fashion, arts and crafts, literature and music, kiwi icons, kiwiana, overseas fame, sexuality and morality, environmentalism, national disasters, immigration and multiculturalism.

P: Any 15 points at 100 level in HIST or CLAS 120, or any 60 points at 100 level from the Schedule V of the BA.

R: HIST 352

HIST243-21S1 (C)

Semester 1

HIST 247 Slavery to Freedom in World History

15 Points 0.1250 EFTS

This course focuses on histories of slavery and bonded labour from the ancient to the modern world. It explores the links between histories of unfree labor, ideas of citizenship and the influence of 'enlightenment' thinking in the shaping of modern democracies.

P: Any 15 points at 100 level in HIST or CLAS 120, or any 60 points at 100 level from the Schedule V of the BA.

R: HIST 371

HIST247-21S1 (C)

Semester 1

HIST 253 Renaissance and Reformation Europe

15 Points 0.1250 EFTS

A thematic study of two major transformations in European History between c.1350 and c.1620.

P: Any 15 points at 100 level in HIST or CLAS 120, or any 60 points at 100 level from the Schedule V of the BA.

R: HIST 373

HIST253-21S2 (C)

Semester 2

HIST 257 America in Revolution and Civil War

15 Points 0.1250 EFTS

This course explores the basic political ideas and institutions of early America in association with a close examination of the American revolution and the Civil War. It considers ideas from multiple perspectives and by means of close reading of texts of multiple genre including political essays, letters, fiction and autobiography.

P: Any 15 points at 100 level in HIST or CLAS 120, or any 60 points at 100 level from the Schedule V of the BA.

R: HIST 377

HIST257-21S2 (D)

Semester 2

HIST257-21S2 (C)

Semester 2

HIST 258 Revisiting Empire

15 Points 0.1250 EFTS

This course provides a critical understanding of decolonisation and legacies of empire in making the modern world. You will be introduced to major debates in the history of British World scholarship. Topics are from the latest ideas in the area and include commemoration and the toppling of statues, cultural symbols of nation and empire, landscape and power, war and patriotism, settler/indigenous contact zones, environmental imperialism, female imperialism, gender and sexuality, empire and memory, war and patriotism, travel and the sea, and food and marketing. Aotearoa New Zealand, Africa, Australia and Canada are examined.

P: Any 15 points at 100 level in HIST or CLAS 120, or any 60 points at 100 level from the Schedule V of the BA.

R: HIST 378

EQ: HIST 378

HIST258-21S1 (C)

Semester 1

HIST 262 Māori and Indigenous Development

15 Points 0.1250 EFTS

This course will examine Māori and Indigenous development. Students will explore both historical and contemporary developments and the factors which have affected Māori and Indigenous engagement with globalisation. For example the course will look at areas such as economic development, education and health, amongst others.

P: Any 15 points at 100 level in HIST or MAOR or CLAS 120, or any 60 points at 100 level from the Schedule V of the BA.

R: MAOR 212, HIST 379

EQ: MAOR 212

HIST262-21S1 (C)

Semester 1

HIST 268 Te Tiriti: The Treaty of Waitangi

15 Points 0.1250 EFTS

This course uses the Treaty of Waitangi to frame examinations of contemporary New Zealand society. We ask questions designed to highlight and emphasise the relevance of the Treaty of Waitangi to everyday New Zealanders. In addition, the course looks at the importance of this document in the maintenance of Crown and Māori relations. Topics covered range from the signing of the Treaty, and historical developments, to the protest movements and activism of the continuing Māori renaissance period, race relations and one law-for-all.

P: Any 15 points at 100 level in HIST, CULT, HSRV, MAOR, POLS, or SOCI, or CLAS 120, or any 60 points at 100 level from the Schedule V of the BA.

R: MAOR 219, POLS 218, POLS 258, SOCI 209, HSRV 207, CULT 219

EQ: MAOR 219, POLS 258, SOCI 209, HSRV 207, CULT 219

HIST268-21S2 (C)

Semester 2

HIST 269 The Rise and Fall of Communism in Central and Eastern Europe, 1944 - 1991

15 Points 0.1250 EFTS

The end of the Cold War and of Eastern European communism in 1989-1991 did not mean the loss of global interest in developments in the former communist countries of Central and Eastern Europe. On the contrary, the recent history of these countries, the period of their post-communist transition to political democracy and a market economy, has been marked with new instabilities, crises and wars which have had serious implications for global trends. This course is designed to provide a broad background to an understanding of the political, socio-economic, and cultural developments in the former communist countries of Central and Eastern Europe as an essential prerequisite to understanding the modern world.

P: Any 15 points at 100 level in HIST or EURA, or CLAS 120, or any 60 points at 100 level from the Schedule V of the BA.

R: EURO 226, EURO 222, HIST 264 (prior to 2006), INCO 225, HIST 386, EURA 226, EURA 326,

EURO 326, HIST 329

EQ: EURA 226

HIST269-21S2 (C)

Semester 2

HIST 278 America and the World into the 21st Century

15 Points 0.1250 EFTS

This course provides an overview of American foreign policy and domestic politics in the second half of the twentieth century.

P: Any 15 points at 100 level in HIST or CLAS 120, or any 60 points at 100 level from the Schedule V of the BA.

R: HIST 364

HIST278-20SU2 (C)

Summer (Nov 20)

HIST 283 Ethnicity, Racism and History

15 Points 0.1250 EFTS

This course provides a critical introduction to the historical study of ethnicity, racism, genocide and migration.

P: Any 15 points at 100 level in HIST, ANTH, MAOR, PACS, or SOCI, or CLAS 120, or any 60 points at 100 level from the Schedule V of the BA.

R: ANTH 223, MAOR 230, PACS 204, SOCI 223

EQ: ANTH 223, MAOR 230, PACS 204, SOCI 223

HIST283-21S2 (C)

Semester 2

History

HIST 288 Exploring the Past: Public History, Memory and Material Culture

15 Points 0.1250 EFTS

This course is a 'hands-on' introduction to public history and historical ethnography, taught through a combination of workshops, tutorials and field trips.

P: Any 15 points at 100 level in HIST, ANTH, or SOCI, or CLAS 120, or any 60 points at 100 level from the Schedule V of the BA.

R: ANTH 238, SOCI 238

EQ: ANTH 238, SOCI 238

HIST288-21S1 (C) Semester 1**HIST 292 Oral Traditions and Modern Histories of Ngāi Tahu**

15 Points 0.1250 EFTS

The story of Ngāi Tahu is a fascinating example of a small impoverished community of tribal members who by the 1970s had been reduced to a membership of less than 400. Within two decades this tribe had emerged as one of the largest corporations in the South Island with a tribal membership of over 40,000. It is the largest land-owner in the South Island with significant interests in fisheries and tourism. Explaining how and why this happened will be one of the core themes of this course. The first part of this course will look at the oral traditions and myths of Ngāi Tahu with a particular emphasis on narrative templates and how these templates are reproduced in the oral traditions that outline the tribe's migration from Wellington to the South Island. The second part of the course will look at Ngāi Tahu's movement from its pre-contact era to initial contact with early explorers, the settler government and the subsequent land transactions that ran from 1844 to 1864. The course will then finish with an overview of how Ngāi Tahu and the Crown negotiated on the largest Treaty settlement packages in the nation's history.

P: Any 15 points at 100 level in HIST or MAOR, or CLAS 120, or any 60 points at 100 level from the Schedule V of the BA.

R: MAOR 285

EQ: MAOR 285

HIST292-21S1 (C) Semester 1**HIST 293 Fascism and the Far-Right in Europe**

15 Points 0.1250 EFTS

This course examines the rise of Fascist movements in Italy, Germany, France and Eastern Europe during the late nineteenth and early twentieth centuries before considering the far-right and fascist regimes created by Franco, Mussolini and Hitler. The course also reflects on the state of the European radical right today.

P: Any 15 points at 100 level in HIST or CLAS 120, or any 60 points at 100 level from the Schedule V of the BA.

R: HIST 393

HIST293-21S2 (C) Semester 2**HIST 295 Crime, Criminology and Policing in Modern Europe since 1750**

15 Points 0.1250 EFTS

Beginning in the mid-eighteenth century, this course traces the development of crime, criminology and policing in modern Europe. Paying particular attention to the rise of competing biological and sociological models of criminality and the birth of forensics, the course examines the social, political and professional implications of attempting to put the investigation, understanding, and punishment of crime on a scientific footing. Topics covered will include: crime and insanity, Lombroso and the born criminal, the professionalisation of policing, and the development of fingerprinting and crime scene analysis.

P: Any 15 points at 100 level in HIST or CLAS 120, or any 60 points at 100 level from the Schedule V of the BA, or 60 points at 100 level from Schedules C or E of the BCJ.

R: HIST 395

HIST295-21S1 (C) Semester 1**HIST 298 Elephants and Empires: An Environmental History of Ancient to Modern India**

15 Points 0.1250 EFTS

This course considers the way humans have historically interacted with the land, water, plant and animal life in the Indian sub-continent and how these interactions shaped and were shaped by human kingdoms and empires from ancient to modern times.

P: Any 15 points at 100 level in HIST or CLAS 120, or any 60 points at 100 level from the Schedule V of the BA.

R: HIST 398

HIST298-21S1 (C) Semester 1**HIST 329 The Rise and Fall of Communism in Central and Eastern Europe, 1944 - 1991**

30 Points 0.2500 EFTS

The end of the Cold War and of Eastern European communism in 1989-1991 did not mean the loss of global interest in developments in the former communist countries of Central and Eastern Europe. On the contrary, the recent history of these countries, the period of their post-communist transition to political democracy and a market economy, has been marked with new instabilities, crises and wars which have had serious implications for global trends. This course is designed to provide a broad background to an understanding of the political, socio-economic, and cultural developments in the former communist countries of Central and Eastern Europe as an essential prerequisite to understanding the modern world.

P: Any 30 points at 200 level from EURA or HIST, or any 60 points at 200 level from the Schedule V of the BA.

R: EURA 226, EURO 226, EURA 326, EURO 326, HIST 269

EQ: EURO 326, EURA 326

HIST329-21S2 (C) Semester 2

90 2021 Rārangī Akoranga

HIST 335 Tsardom to Empire: Russian History 1480 to 1917

30 Points 0.2500 EFTS

This course explores aspects of social, political, economic, cultural, religious, and intellectual history of Russia prior to 1917, with a particular emphasis on the autocratic tradition as developed from 1480 onwards. The course also investigates the making of the Russian Empire while also examining ways in which political forces unique to Russia shaped the country's cultural specificity in the European context.

P: Any 30 points at 200 level from EURA, HIST, or RUSS, or any 60 points at 200 level from the Schedule V of the BA.

R: HIST 138, HIST 235, HIST 335, RUSS 111, RUSS 235, RUSS 335, EURA 235, EURA 335

EQ: RUSS 335, EURA 335

HIST335-21S2 (C) Semester 2**HIST 339 The First World War: Total War in Europe**

30 Points 0.2500 EFTS

The First World War is often described as a total war. Between 1914 and 1918 over 9 million combatants were killed and European nations deliberately targeted civilians for attack. Governments gave themselves extraordinary powers over people's lives as they tried to turn whole societies, economies and cultures to the war effort. The results of this ranged from social and political reform to revolution, genocide and the collapse of empires. Students will explore the war's impacts on the people of Europe, investigating its origins; military, political and social developments; and the legacies of both peace diplomacy and war cultures. Focusing primarily on Britain, France and Germany, this course asks how the experience and endurance of total war affected Europe, and what this meant for the modern world.

P: Any 30 points at 200 level from HIST, or any 60 points at 200 level from the Schedule V of the BA.

HIST339-21S1 (C) Semester 1**HIST 352 Kiwi Culture**

30 Points 0.2500 EFTS

This course explores the invention of kiwi culture from first Māori contact with Europeans to Peter Jackson's Lord of the Rings films. Key questions asked are: How has national identity formed? What kiwi traditions have emerged? Who is a New Zealander and who is excluded from dominant concepts of nation? What aspects of culture are indigenous and how much is copied from overseas? Topics under examination include key defining moments, peacekeeping, sport and leisure, food, beauty, fashion, arts and crafts, literature and music, kiwi icons, kiwiana, overseas fame, sexuality and morality, environmentalism, national disasters, immigration and multiculturalism.

P: Any 30 points at 200 level from HIST, or any 60 points at 200 level from the Schedule V of the BA.

R: HIST 243

RP: HIST 128 or equivalent

HIST352-21S1 (C) Semester 1**HIST 366 Takahi: Colonisation**

30 Points 0.2500 EFTS

Colonisation has had a significant effect on the shaping of contemporary New Zealand society. This course will cover key events in the colonisation throughout New Zealand's brief colonial history. This course utilises different theories of colonisation to critically examine the continued subjugation of Indigenous Peoples in Aotearoa and around the world. Special attention will also be paid to breaking down the power relationships that have emerged between coloniser and colonised.

P: Any 30 points at 200 level from CULT, HIST, or MAOR, or any 60 points at 200 level from the Schedule V of the BA.

R: MAOR 317, RELS 322, CULT 302

EQ: CULT 302, MAOR 317, RELS 322

HIST366-21S2 (C) Semester 2**HIST 373 Renaissance and Reformation Europe**

30 Points 0.2500 EFTS

A thematic study of two major transformations in European History between c.1350 and c.1600.

P: Any 30 points at 200 level from HIST, or any 60 points at 200 level from the Schedule V of the BA.

R: HIST 253

HIST373-21S2 (C) Semester 2**HIST 377 American Revolution and Civil War**

30 Points 0.2500 EFTS

An examination into the origins of popular government, the genius of American revolutionary politics, and the Civil War which ended slavery.

P: Any 30 points at 200 level from HIST, or any 60 points at 200 level from the Schedule V of the BA.

R: HIST 257

HIST377-21S2 (C) Semester 2**HIST 378 Revisiting Empire**

30 Points 0.2500 EFTS

This course provides a critical understanding of decolonisation and legacies of empire in making the modern world. You will be introduced to major debates in the history of British

World scholarship. Topics are from the latest ideas in the area and include commemoration and the toppling of statues, cultural symbols of nation and empire, landscape and power, war and patriotism, settler/indigenous contact zones, environmental imperialism, female imperialism, gender and sexuality, empire and memory, war and patriotism, travel and the sea, and food and marketing. Aotearoa New Zealand, Africa, Australia and Canada are examined.

P: Any 30 points at 200 level from HIST, or any 60 points at 200 level from the Schedule V of the BA.

R: HIST 258

EQ: HIST 258

HIST378-21S1 (C)

Semester 1

HIST 379 Māori and Indigenous Development

30 Points

0.2500 EFTS

This course will examine the history of Māori economic development. Students will gain an understanding of recent developments and the factors which have affected Māori engagement with globalisation over the past two hundred years.

P: Any 30 points at 200 level from HIST or MAOR, or any 60 points at 200 level from the Schedule V of the BA.

R: HIST 262, MAOR 212

HIST379-21S1 (C)

Semester 1

HIST 393 Fascism and the Far-Right in Europe

30 Points

0.2500 EFTS

This course examines the rise of Fascist movements in Italy, Germany, France and Eastern Europe during the late nineteenth and early twentieth centuries before considering the far-right and fascist regimes created by Franco, Mussolini and Hitler. The course also reflects on the state of the European radical right today.

P: Any 30 points at 200 level from HIST, or any 60 points at 200 level from the Schedule V of the BA.

R: HIST 293

RP: HIST 281

HIST393-21S2 (C)

Semester 2

HIST 395 Crime, Criminology and Policing in Modern Europe since 1750

30 Points

0.2500 EFTS

Beginning in the mid-eighteenth century, this course traces the development of crime, criminology and policing in modern Europe. Paying particular attention to the rise of competing biological and sociological models of criminality and the birth of forensics, the course examines the social, political and professional implications of attempting to put the investigation, understanding, and punishment of crime on a scientific footing. Topics covered will include: crime and insanity, Lombroso and the born criminal, the professionalisation of policing, and the development of fingerprinting and crime scene analysis.

P: Any 30 points at 200 level from HIST, or CRJU 201 or LAWS 202, or any 60 points at 200 level from the Schedule V of the BA.

R: HIST 295

HIST395-21S1 (C)

Semester 1

HIST 398 Elephants and Empires: An Environmental History of Ancient to Modern India

30 Points

0.2500 EFTS

This course emphasises the human/animal relationship as a primary factor in the environmental history of India. It focusses particularly on the environmental factors of disease, climate and health among both humans and animals in the shaping of India's history from ancient to modern times.

P: Any 30 points at 200 level from HIST, or any 60 points at 200 level from the Schedule V of the BA.

R: HIST 298

HIST398-21S1 (C)

Semester 1

PACE 395 Internship

30 Points

0.2500 EFTS

What can you do with your major? With your degree? The purpose of the internship course is to explore both the ideological and practical assumptions guiding this question. The course is designed to be a critical, theoretical and "real-world" examination of the practices and ideologies inherent in both community and business organisations. You will apply the analytical skills acquired through your major, and through class seminars and readings, to a project designed by a local company or community group. Please check out the website for further information and specific project descriptions: www.arts.canterbury.ac.nz/internships

P: 150 points, special application and interview, and permission of the Internship Director.

R: ARTS 395

EQ: ARTS 395

PACE395-20SU2 (C)

Summer (Nov 20)

PACE395-21A (C)

Starts Anytime

PACE395-21S1 (C)

Semester 1

PACE395-21S2 (C)

Semester 2

Limited entry. See limitation of entry regulations. A student will be selected for a specific project. Only students accepted for projects will be allowed into the course. Please go to <http://www.arts.canterbury.ac.nz/internships> for more information.

Tāura | Postgraduate

Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.

HIST 429 From Leeches to Liposuction: A Social History of Medicine

30 Points

0.2500 EFTS

An introduction to the flourishing sub-disciplines of social history of medicine and health history.

P: Subject to approval of the Head of Department.

R: HAPS 404

HIST429-21S2 (C)

Semester 2

HIST 443 Issues in New Zealand History

30 Points

0.2500 EFTS

This course examines a variety of issues in New Zealand history, chosen by each year's class.

These issues are either: (1) ones that have fuelled debate, or (2) topics that are under-explored or undeveloped but could open up research fields in the future.

P: Subject to approval of the Head of Department.

R: DIPL 429

EQ: DIPL 429

HIST443-21S1 (C)

Semester 1

HIST 449 Issues in Modern European History

30 Points

0.2500 EFTS

This course focuses on some of the most important and controversial debates in the historiography of modern Europe. Students will be encouraged to explore these debates in detail, to consider the historiographical context within which these debates have taken place, and to arrive at their own views based on their extensive research in primary and secondary sources.

P: Subject to approval of the Head of Department.

R: HIST 438, HIST 448, EURO 448, DIPL 418, DIPL 423, DIPL 428

EQ: DIPL 428, EURO 448

HIST449-21S1 (C)

Semester 1

HIST 450 History as a Discipline

30 Points

0.2500 EFTS

This course traces the development of the discipline of history; it examines the principal modern approaches to the study of the past; it makes explicit the methodological principles which underlie historical research and writing; and it encourages reflection on controversial matters concerning truth, objectivity, bias, values and cross-cultural understanding.

P: Subject to approval of the Head of Department.

R: HAPS 403

EQ: HAPS 403

HIST450-21S1 (C)

Semester 1

HIST 480 Research Paper

30 Points

0.2500 EFTS

P: Subject to approval of the Head of Department.

HIST480-21W (C)

Whole Year (S1 and S2)

HIST 660 MA Dissertation

60 Points

0.5000 EFTS

MA Dissertation

P: Subject to approval of the Head of Department.

HIST660-21A (C)

Starts Anytime

HIST660-21S1 (C)

Semester 1

HIST660-21S2 (C)

Semester 2

HIST 690 MA Thesis

120 Points

1.0000 EFTS

P: Subject to approval of the Head of Department.

HIST690-21A (C)

Starts Anytime

Part-time enrolment (0.65 EFTS) is available on approval.

HIST 790 History PhD

120 Points

1.0000 EFTS

P: Subject to approval of Head of School.

HIST790-21A (C)

Starts Anytime

*Part-time enrolment (0.65 EFTS) is available on approval. *From 1 January 2008, international students who are residing in New Zealand on a NZ Immigration Study Visa pay the Domestic Fee for this course. International fees apply for all other courses.*

Human-Animal Studies

School of Humanities and Creative Arts

Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.

HUAN 790 Human-Animal Studies PhD

120 Points 1.0000 EFTS

Human-Animal Studies PhD

P: Subject to approval of the Head of Department.

HUAN790-21A (C) Starts Anytime

Human Interface Technology

Human Interface Technology Laboratory New Zealand

Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.

HITD 602 Human Interface Technology - Design and Evaluation

15 Points 0.1250 EFTS

The Human Interface Technology - Design and Evaluation course covers the aesthetic design of user interfaces, along with common evaluation methods used to assess them. Students will learn how to conduct statistical analyses for user interface evaluation. Individual as well as work in teams will be required to complete assignments. This course consists of lectures and assignments. Familiarity with basic statistical methods is recommended.

P: Subject to Approval of the College of Engineering Dean (Academic)

R: HITD 601

HITD602-21S1 (C) Semester 1

Limited entry. See limitation of entry regulations.

HITD 603 Human Interface Technology - Prototyping and Projects

15 Points 0.1250 EFTS

The Human Interface Technology - Prototyping and Projects course covers the design and development of software, hardware and physical products from initial requirements gathering to a testable prototype. Students will learn how to determine requirements for a project, techniques for creating prototypes, interface programming, and electronics. Students will work individually and in teams to complete assignments. This course consists of lectures and assignments. Familiarity with basic programming concepts is recommended.

P: Subject to Approval of the College of Engineering Dean (Academic)

R: HITD 601

HITD603-21S1 (C) Semester 1

Limited entry. See limitation of entry regulations.

HITD 690 Thesis in Human Interface Technology

90 Points 0.7500 EFTS

Thesis in Human Interface Technology.

P: Subject to the approval of the Dean of Engineering and Forestry

HITD690-21A (C) Starts Anytime

HITD690-21W (C) Whole Year (S1 and S2)

Part-time enrolment (0.4875 EFTS) is available on approval.

HITD 790 Human Interface Technology PhD

120 Points 1.0000 EFTS

HITD Human Interface Technology PhD

P: Subject to approval by the Director of HIT Lab NZ

HITD790-21A (C) Starts Anytime

Part-time enrolment (0.65 EFTS) is available on approval. *From 1 January 2008, international students who are residing in New Zealand on a NZ Immigration Study Visa pay the Domestic Fee for this course. International fees apply for all other courses.

Human Services

School of Language, Social and Political Sciences

HSRV 103 Violence in Society

15 Points 0.1250 EFTS

This course will introduce students to the contemporary issue of violence in society and its impact on the community. A broad overview will be provided of five main areas of violence: child protection; family violence; youth violence; institutional and cultural violence; and, crime and deviance.

HSRV103-21S2 (C) Semester 2

HSRV103-21S2 (D) Semester 2

HSRV 104 Youth Realities

15 Points 0.1250 EFTS

The course introduces students to the diverse realities of youth with a focus on youth in multiple contexts. Students will explore issues that place youth outside the margins of dominant society that often increases the level of prejudice and discrimination against them. Throughout the course students will engage in current debates within five key sections: Transgressing masculinities and femininities; Embodied identity; Youth technologies, spaces and things; Negotiating sexualities; Missing youth rights. Each of these sections will introduce diverse youth perspectives, issues, challenges and debates, and encourages students to critically consider the responses, models, theoretical frameworks used in youth work and human service sectors in general.

R: SOWK 104

EQ: SOWK 104

HSRV104-21S1 (C) Semester 1

HSRV104-21S1 (D) Semester 1

HSRV 201 Communication in the Human Services

15 Points 0.1250 EFTS

This course provides foundation knowledge and skills in interpersonal communication. The context of human communication is considered in terms of the impact of gender, class and culture and how these elements mediate social relationships. The focus of the course is on enhancing communication effectiveness in different organisational contexts. An introduction to korero Māori is integral to the course in terms of the New Zealand context.

P: HSRV 103 and HSRV 104; or, 15 points at 100 level in HSRV and 30 points at 100 level from either Schedule C to the BSW, Schedule V to the BA, or Schedules C or E to the BCJ; or 60 points at 100 level from the BA, BSW or BCJ.

R: SOWK 201

EQ: SOWK 201

HSRV201-21S1 (C) Semester 1

HSRV201-21S1 (D) Semester 1

HSRV 202 Human Behaviour and Human Systems

15 Points 0.1250 EFTS

This course examines the applications to human services of primary knowledge about human functioning and social behaviours, drawing on contemporary theories of psychosocial processes. The course explores selected developmental and external challenges facing children and families in New Zealand. The focus of the course is on usual developmental processes and the interface between individual and societal expectations, and implications for social service delivery.

P: HSRV 103 and HSRV 104; or, 15 points at 100 level in HSRV and 30 points at 100 level from either Schedule C to the BSW, Schedule V to the BA, or Schedules C or E to the BCJ; or 60 points at 100 level from the BA, BSW or BCJ.

R: SOWK 202

EQ: SOWK 202

HSRV202-21S1 (C) Semester 1

HSRV202-21S1 (D) Semester 1

HSRV 203 Policy Debates in the Social Services

15 Points 0.1250 EFTS

This course examines key principles guiding policy on the provision of social services. Trends and debates around the shifting relationship between welfare systems and the state are explored along with factors influencing the delivery of human services in Aotearoa/New Zealand.

Students will learn to critically assess the implications of social service delivery for providers and consumers of welfare services, and issues around the impact of inequalities in society.

P: HSRV 103 and HSRV 104; or, 15 points at 100 level in HSRV and 30 points at 100 level from either Schedule C to the BSW, Schedule V to the BA, or Schedules C or E to the BCJ; or 60 points at 100 level from the BA, BSW or BCJ.

R: SOWK 203

EQ: SOWK 203

HSRV203-21S2 (C) Semester 2

HSRV203-21S2 (D) Semester 2

HSRV 204 Culture, Indigeneity and Citizenship: Critical Debates for the Human Services

15 Points 0.1250 EFTS

The course provides a critical introduction to the historical and current debates of culture, indigeneity and citizenship. The course focuses on debates that move beyond conventional notions of culture, indigeneity and citizenship, and treats these as strategic concepts that are central in the analysis of global/local identities, participation, empowerment, and social justice. Understanding how other communities, populations, groups and individuals organise their lives and participate in the social world enables us to develop theoretically informed tools for providing practical analysis and advice in the shaping/construction of human services agencies and practice.

P: Any 15 points at 100 level from HSRV or SOWK, or any 60 points at 100 level from the Schedule V of the BA.

HSRV204-21S2 (C) Semester 2

HSRV204-21S2 (D) Semester 2

HSRV 208 Gender Sensitivity and the Human Services

15 Points 0.1250 EFTS

This course provides students with the opportunity to critically analyse how gender is assembled and performed. The course develops students' knowledge of theories, experiences and issues of gender as they apply to areas of human services work. Students are encouraged to think about diverse ways in which social structure mechanisms can: support and maintain notions of femininity and masculinity, affect the choices available to women and men, and shape ideas regarding individual and social well-being. Examples will be provided by field practitioners to facilitate the examination of the economic, psychological, and social risks faced by women and men as consumers and providers of human services, and analyse the ways in which human services define, validate, and promote human well-being.

P: HSRV 103 and HSRV 104; or, 15 points at 100 level in HSRV and 30 points at 100 level from either Schedule C to the BSW, Schedule V to the BA, or Schedules C or E to the BCJ; or 60 points at 100 level from the BA, BSW or BCJ.

R: HSRV 308

HSRV208-21S1 (C) Semester 1**HSRV208-21S1 (D) Semester 1****HSRV 209 Humans, Animals and Society**

15 Points 0.1250 EFTS

This course introduces students to the study of human relations with other species and the natural world. It provides students with the opportunity to question taken for granted assumptions about nature, the environment and the roles of animals in society and the human services. The topic adopts a social justice approach and includes consideration of issues such as ecofeminism, animal liberation and speciesism in relation to other forms of oppression. The course provides students with the opportunity to question taken for granted assumptions about power as well as encouraging students to think about the nature, form and process of advocacy on behalf of the marginalized.

P: HSRV 103 and HSRV 104; or, 15 points at 100 level in HSRV and 30 points at 100 level from either Schedule C to the BSW, Schedule V to the BA, or Schedules C or E to the BCJ; or 60 points at 100 level from the BA, BSW or BCJ.

R: CULT 209

HSRV209-21S1 (D) Semester 1**HSRV209-21S1 (C) Semester 1****HSRV 210 Gender, Crime and Social Theory**

15 Points 0.1250 EFTS

This course considers a range of explanatory theories emanating from a range of disciplines that contribute to current understandings of gender, crime, deviance, social theory and social control. There is significant input from visiting professionals in criminal justice and allied practices relevant to the topic. Theories and constructions of crime, deviance, violence and gender will be discussed as these relate to gendered experiences within and without the criminal justice system.

P: HSRV 103 and HSRV 104; or, 15 points at 100 level in HSRV and 30 points at 100 level from either Schedule C to the BSW, Schedule V to the BA, or Schedules C or E to the BCJ; or 60 points at 100 level from the BA, BSW or BCJ.

R: HSRV 303

HSRV210-21S2 (C) Semester 2**HSRV210-21S2 (D) Semester 2****HSRV 211 Community Development: Concepts, Practice and the Dynamics of Change**

15 Points 0.1250 EFTS

In this course, the concept of community in the modern world is explored, together with theoretical and practical approaches to understanding community development. An introduction is provided to community analysis and the dynamics of change in communities.

P: HSRV 103 and HSRV 104; or, 15 points at 100 level in HSRV and 30 points at 100 level from either Schedule C to the BSW, Schedule V to the BA, or Schedules C or E to the BCJ; or 60 points at 100 level from the BA, BSW or BCJ.

HSRV211-21S2 (C) Semester 2**HSRV211-21S2 (D) Semester 2****HSRV 212 Family Violence**

15 Points 0.1250 EFTS

This course will provide substantive content on the dynamics of family violence across three forms of violence including child abuse and neglect, intimate partner violence and elder abuse. Specialist law provides the means through which family violence concerns can be addressed by the State. Both voluntary and statutory responses are used in response to family violence. This course provides a broad overview of the ways in which the family and the state attempt to address the issue of family violence. Students will be introduced to research and literature pertaining to family violence from an international and New Zealand perspective and will use this to critique how family violence is both framed and responded to. The course utilises a blended learning format.

P: HSRV 103 and HSRV 104; or, 15 points at 100 level in HSRV and 30 points at 100 level from either Schedule C to the BSW, Schedule V to the BA, or Schedules C or E to the BCJ; or 60 points at 100 level from the BA, BSW or BCJ.

R: HSRV 206, SOWK 212

HSRV212-21S2 (D) Semester 2**HSRV 301 Change and Human Systems**

30 Points 0.2500 EFTS

This course uses theory to illuminate the functioning and processes of change within and across family, organisation, community and global systems. In addition to critically examining the relationship between oppression, empowerment and change in human systems, the course broadly considers ethical values and the legal obligations of human service delivery systems.

P: HSRV 204 and any 15 points at 200 level from HSRV or SOWK, or any 60 points at 200 level from the Schedule V of the BA.

HSRV301-21S1 (C) Semester 1**HSRV301-21S1 (D) Semester 1****HSRV 310 Gender, Crime and Social Theory**

30 Points 0.2500 EFTS

This course considers a range of explanatory theories emanating from a range of disciplines that contribute to current understandings of gender, crime, deviance, social theory and social control. There is significant input from visiting professionals in criminal justice and allied practices relevant to the topic. Theories and constructions of crime, deviance, violence and gender will be discussed as these relate to gendered experiences within and without the criminal justice system.

P: 30 points at 200 level in HSRV, or any 15 points at 200-level in HSRV & 30 points at 200 level from Schedule C (BSW) or Schedule V (BA) or Schedule C or E (BCJ). Students with at least 60 points in appropriate courses may enter with permission of HSRV Programme Coordinator.

R: HSRV 210, HSRV 303

HSRV310-21S2 (D) Semester 2**HSRV310-21S2 (C) Semester 2****HSRV 311 Qualitative Research Methods**

30 Points 0.2500 EFTS

The development of a research culture in human services is an important challenge for educators, managers, practitioners and students. The creative tension between research, theory and practice is a necessary aspect of human services work and study. A strong research culture contributes significantly to the development of a knowledge and practice in human services. As the nature and scope of research activities and opportunities are diverse within human services settings, this course aims to provide a basis from which students can begin to develop a research culture across diverse contexts. By introducing a range of qualitative research approaches and enabling students to experience manageable research assignments, students will become increasingly familiar with the business of research and how it fits within complex and diverse human service systems. This course will begin by introducing students to the philosophical underpinnings of qualitative research, including methodological frameworks, theories, and controversies. Next, students will learn about practical issues encountered in 'doing' research. Those practical issues include ethics of the research process; navigating cultures and hard-to-reach groups; data gathering via documents, interviews, and focus groups; and analysing data. Students are encouraged to think critically in terms of applicability for developing ethical research models within diverse contexts/settings.

P: 30 pts at 200 level in HSRV. Any 15pts at 200-level in HSRV & 30 pts at 200 level from Schedule C (BSW) or Schedule V (BA) or Schedule C or E (BCJ). Students with at least 60 pts in appropriate courses may enter with permission of HSRV PC.

R: HSRV 302

HSRV311-21S1 (C) Semester 1**HSRV311-21S1 (D) Semester 1****HSRV 316 Non-Governmental Organisations and Social Development**

30 Points 0.2500 EFTS

This course investigates the characteristics and emergent role of NGOs in contemporary society within the context of challenges and issues related to social development. Learning will be integrated through the use of international and New Zealand case studies.

P: Any 30 points at 200 level from HSRV; or, any 15 pts at 200-level in HSRV, and 30 points at 200 level from Schedule C to the BSW, Schedule V to the BA, or Schedules C or E to the BCJ; or 60 points at 200 level from the BA, BSW or BCJ.

R: HSRV 306

HSRV316-21S2 (C) Semester 2**HSRV316-21S2 (D) Semester 2****HSRV 318 Gender Sensitivity in Human Services**

30 Points 0.2500 EFTS

This course provides students with the opportunity to critically investigate shifting socio-cultural constructions of gender. The course develops students' knowledge of theories, experiences and issues of gender. Students are encouraged to think about diverse ways in which social structure mechanisms can: support and maintain notions of femininity and masculinity, affect the choices and opportunities available, and shape ideas regarding individual and social well-being. Students are encouraged to explore the social, political, economic and cultural contexts inhabited by women and men as consumers and providers of human services; to analyse the ways in which gender is experienced, defined, validated, and promoted.

P: Any 30 points at 200 level from HSRV; or, any 15 pts at 200-level in HSRV, and 30 points at 200 level from Schedule C to the BSW, Schedule V to the BA, or Schedules C or E to the BCJ; or 60 points at 200 level from the BA, BSW or BCJ.

R: HSRV 208, HSRV 308

HSRV318-21S1 (C) Semester 1**HSRV318-21S1 (D) Semester 1**

PACE 395 Internship

30 Points 0.2500 EFTS

What can you do with your major? With your degree? The purpose of the internship course is to explore both the ideological and practical assumptions guiding this question. The course is designed to be a critical, theoretical and "real-world" examination of the practices and ideologies inherent in both community and business organisations. You will apply the analytical skills acquired through your major, and through class seminars and readings, to a project designed by a local company or community group. Please check out the website for further information and specific project descriptions: www.arts.canterbury.ac.nz/internships

P: 150 points, special application and interview, and permission of the Internship Director.

R: ARTS 395

EQ: ARTS 395

PACE395-20S2 (C) Summer (Nov 20)

PACE395-21A (C) Starts Anytime

PACE395-21S1 (C) Semester 1

PACE395-21S2 (C) Semester 2

Limited entry. See limitation of entry regulations. A student will be selected for a specific project.

Only students accepted for projects will be allowed into the course. Please go to <http://www.arts.canterbury.ac.nz/internships> for more information.

Tāura | Postgraduate

Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.

HSRV 401 Advanced Debates and Approaches in Human Services

30 Points 0.2500 EFTS

This course critically explores debates concerned with processes of change within and across family, organisation, community and global systems. In addition to critically examining the relationship between oppression, empowerment and change in human systems, the course considers ethical values and the legal obligations of national and international human service delivery systems.

P: Subject to approval of the Head of Department.

HSRV401-21S1 (C) Semester 1

HSRV401-21S1 (D) Semester 1

HSRV 407 The Policies and Politics of Sex

30 Points 0.2500 EFTS

This course provides students with an interest in human service practice the opportunity to investigate shifting socio-cultural constructions of sexuality with an emphasis on the contradictions and complexities in the social regulation of sexuality and the contours of state control. Issues relating to human service practice explored in the course include: reproductive rights; law reforms, queer culture and homophobia; local and international control of prostitution; the emergence of sexual rights; pornography and eroticism; sex education and the hidden curriculum; sex and harassment; sexual violence; safe sex and the HIV/AIDS era; sexuality and ageing; cultural sexualities; the medicalisation of sexuality and the transgendered body.

P: Subject to approval of the Head of Department.

R: CULT 419

EQ: CULT 419

HSRV407-21S1 (D) Semester 1

HSRV 421 Qualitative Evaluation Research for the Human Services

30 Points 0.2500 EFTS

Using a service/programme evaluation framework, this course introduces a range of qualitative research methods emphasising both conceptual appreciation, and technical competence.

Students will learn about programme evaluation, and the use of qualitative methods within this context.

P: Subject to approval of the Head of Department.

R: SOWK 621/SOWK 617

HSRV421-21S1 (C) Semester 1

HSRV421-21S1 (D) Semester 1

HSRV 480 Research Essay

30 Points 0.2500 EFTS

In this course, students explore a research topic of their choice under the supervision of an appropriate staff member, subject to approval by the programme coordinator. This course is compulsory for all Honours students.

P: Subject to approval of the Head of Department.

HSRV480-21W (C) Whole Year (S1 and S2)

HSRV480-21W (D) Whole Year (S1 and S2)

HSRV 650 MA Dissertation

60 Points 0.5000 EFTS

MA Dissertation

P: Subject to approval of the Head of Department.

HSRV650-21A (C) Starts Anytime

HSRV650-21S1 (C) Semester 1

HSRV650-21S2 (C) Semester 2

HSRV 690 MA Thesis

120 Points 1.0000 EFTS

P: Subject to approval of the Head of Department.

HSRV690-21A (C) Starts Anytime

Part-time enrolment (0.65 EFTS) is available on approval.

HSRV 790 Human Services PhD

120 Points 1.0000 EFTS

P: Subject to approval of the Head of School.

HSRV790-21A (C) Starts Anytime

Part-time enrolment (0.65 EFTS) is available on approval. *From 1 January 2008, international students who are residing in New Zealand on a NZ Immigration Study Visa pay the Domestic Fee for this course. International fees apply for all other courses.

Information Systems**Department of Accounting and Information Systems****INFO 123 Business Information Systems and Technology**

15 Points 0.1250 EFTS

Information technology plays a critical role in business and society, supporting business transformation and innovation, digital lifestyles, and how we communicate and collaborate. This course aims to help students understand how organisations can use data and technology to address business problems, to deliver business value and stay competitive, to create better processes, to improve connections with stakeholders, and to make better decisions. Students are exposed to the opportunities that new and emerging technologies provide, and develop problem-solving skills applicable to any area in business as well as practical skills to capture, organise and use data to support decision-making.

R: ACIS 123, AFIS 123, AFIS 124

INFO123-21S1 (C) Semester 1

INFO123-21S2 (C) Semester 2

INFO 125 Introduction to Programming with Databases

15 Points 0.1250 EFTS

Computer programming with an emphasis on the development of business applications with the .NET framework and their connection to databases. It includes an introduction to programming logic and concepts, the Visual Studio environment, processing data, and using SQL to retrieve and update data. The course makes extensive use of problem solving exercises and hands-on tutorials.

R: ACIS 125, AFIS 125

INFO125-21S1 (C) Semester 1

INFO 223 Business Systems Analysis

15 Points 0.1250 EFTS

Explores key principles in the analysis, design and development of business information system solutions. Coverage includes project planning, analysis of business systems, processes, and requirements; principles of user interface design; prototyping; communication skills. Includes use of software to model organisational data and business processes. Students develop practical skills by applying knowledge to real-world business problems.

P: (1) INFO 123 or INFO 125 or COSC 121 or COSC 122; and (2) An additional 15 points

R: INFO 203, ACIS 203, AFIS 203, AFIS 223

INFO223-21S2 (C) Semester 2

INFO 243 Accounting Information Systems

15 Points 0.1250 EFTS

Core business subsystems and processes that allow organisations to operate effectively and efficiently. Includes enterprise databases; process and pervasive controls in the context of the development life cycle of accounting information systems; frameworks for evaluation of accounting information systems and their processes. Students develop practical skills in using at least one accounting information system package for small businesses, and advanced skills using Excel to manipulate business data.

P: ACCT 103 and INFO 123

R: ACIS 243, AFIS 243

INFO243-21S2 (C) Semester 2

INFO 253 Internet Business and Technology

15 Points 0.1250 EFTS

An introduction to Electronic Commerce (e-Commerce) principles and practices based on the relationship between business development and strategy, internet technology and the social and legal environment. The course examines a range of internet technologies including social media and mobile technologies focusing on how organisations can use these to improve their performance and relationships with customers and suppliers. Concepts are applied to real life case scenarios. Students develop practical skills by designing a prototype B2C application and applying user experience design principles.

P: (1) INFO 123 or INFO 125 or COSC 121 or COSC 122; and (2) An additional 15 points

R: INFO 233

INFO253-21S1 (C) Semester 1

INFO 260 Data Management

15 Points 0.1250 EFTS

The course introduces a range of topics that underpin data management in contemporary organisations. The first part of the course focuses on data architecture, data modelling, data administration, and data warehousing. The second part of the course introduces the concepts of Big Data. In its wider scope the course is designed to expose the students to real-life issues in data management and database management systems in the modern environment.

P: (1) INFO 123 or INFO 125 or COSC 101 or COSC 121 or COSC 122 or DIGI 101; and (2) An additional 15 points

INFO260-21S1 (C) Semester 1

INFO 263 Web Design and Development

15 Points 0.1250 EFTS

An introduction to the design and development of business applications based on internet and World Wide Web technologies. The course covers the concepts and practices of web design and development, including development of dynamic content websites as well as the technological infrastructure necessary to support these systems. Practical application of concepts will be carried out in weekly labs involving the design and construction of business web sites.

P: 30 points from (INFO 123, INFO 125, COSC 121, COSC 122)

R: INFO 233

INFO263-21S1 (C) Semester 1

INFO 343 IT Governance and Strategy

15 Points 0.1250 EFTS

The course focuses on organisational leadership, structures and IT management processes to support and sustain business strategies. It examines important concepts and models related to managing IT such as IT strategy, IT planning, IT alignment and IT evaluation. The course provides students with knowledge and skills to be able to make useful contributions to a range of IT related decisions in organisations.

P: (1) 15 points at 200 level from INFO; and (2) an additional 30 points at 200-level or above

R: INFO 303, ACIS 303

INFO343-21S1 (C) Semester 1

INFO 353 Emerging IT for Business

15 Points 0.1250 EFTS

Changes in the role IT require business technology leaders to engage in new business, process and operating models. This course explores contemporary and emerging issues, technologies and business models as these relate to the management and use of information systems to enable and deliver significant, enduring and transforming business impacts and customer value.

P: (1) 15 points at 200-level INFO, COSC or SENG; and (2) An additional 30 points at 200-level or above.

R: INFO 303, ACIS 303, INFO 635

INFO353-21S2 (C) Semester 2

INFO 360 Business Process Management

15 Points 0.1250 EFTS

This course aims to develop an understanding of business processes and how they can be analysed and improved using IT. Process mapping skills for 'as-is' and 'to-be' business processes are developed and practiced, as well as techniques for change analysis, problem finding and resolution, technology impact analysis, benchmarking, error proofing and change management.

P: (1) 15 points at 200-level INFO, COSC or SENG; and (2) An additional 30 points at 200-level or above

INFO360-21S1 (C) Semester 1

INFO 361 Business Intelligence and Analytics

15 Points 0.1250 EFTS

This course covers key principles and practices related to the use of business intelligence (BI) systems to support strategy and decision-making. Topics include performance dashboards and data visualisation; descriptive, predictive and predictive analytics; data, text and web mining; future trends and directions. Real data-sets and industry-standard tools will be used to demonstrate key principles of BI and to help students develop analytical and problem-solving skills related to BI solutions.

P: (1) INFO 123; and (2) 45 points at 200-level or above

RP: STAT 101

INFO361-21S2 (C) Semester 2

INFO 390 Information Systems Internship

15 Points 0.1250 EFTS

An information systems internship (or project) that enables real world work experience or the (further) development of knowledge and/or expertise in information systems related subjects. Development of problem solving, reflection, synthesis, project management, risk management and communication skills.

P: (1) 45 points at 200-level INFO; and (2) 15 points at 200-level INFO, COSC or SENG; and (3) Subject to Head of Department Approval

R: INFO 362, INFO 330, ACCT 390, ECON 390, FINC 390, MKTG 390

INFO390-21S1 (C) Semester 1

INFO390-21S2 (C) Semester 2

INFO 393 Information Systems Project Management

15 Points 0.1250 EFTS

This course aims to develop an understanding of the role and responsibilities of a project manager, the challenges of IS project management, and the tools and techniques for successful IS project management.

P: (1) 15 points at 200-level from INFO, COSC or SENG; and (2) An additional 30 points at 200 level R: INFO 313, ACIS 313, AFIS 313, MSCI 322, MSCI 324, MGMT 372, MSCI 372

INFO393-21S2 (C) Semester 2

Tāura | Postgraduate

Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.

INFO 614 Research Methodology and Epistemology

30 Points 0.2500 EFTS

INFO614 seeks to provide students with a thorough introduction to the principal assumptions that underpin the development of research ideas in accounting, information systems and related disciplines. More particularly, it seeks to expose students to the theoretical and philosophical foundations of knowledge and reality. You will also be introduced to both quantitative and qualitative research methods

P: Subject to approval of the Head of Department

R: ACCT 614, ACIS 614, AFIS 614

INFO614-21S1 (C) Semester 1

INFO 620 Information Systems Research

15 Points 0.1250 EFTS

The course examines key strategic and contemporary issues related to the management and use of information systems and technology, including their theoretical and practical implications for organisations and society.

P: Subject to approval of the Head of Department.

R: ACIS 620, AFIS 620, AFIS 610

INFO620-21S2 (C) Semester 2

INFO 621 Special Topic: Artificial Intelligence (AI) in Business

15 Points 0.1250 EFTS

P: Subject to approval of the Head of Department

INFO621-21S1 (C) Semester 1

INFO 629 IS Case Study

15 Points 0.1250 EFTS

Students undertake an organisation-based project related to an important IS management decision. The project includes a literature review and the write-up of a case study.

P: Subject to approval of the Head of Department

INFO629-21S1 (C) Semester 1

INFO 633 Knowledge Management

15 Points 0.1250 EFTS

This course focuses on current organisational and technological issues related to knowledge management. The topic is interdisciplinary and draws on knowledge from the fields of information technology, organisational management, human resource management and cognitive psychology.

P: Subject to approval of the Head of Department

INFO633-21S1 (C) Semester 1

INFO 634 Data Analytics & Business Intelligence

15 Points 0.1250 EFTS

The aim is to help students develop an understanding and gain experience with key aspects of business data analytics its applications, systems, processes and practices, and be able to engage critically with the opportunities, issues and challenges that underpin supporting and engaging with business intelligence and analytics in organisations. Key concepts, analytical techniques and tools applicable to various aspects of data science/business analytics, including the collection, integration, analysis, and presentation of organisational information, and data-driven decision making in businesses and otherwise are introduced and applied.

P: Subject to approval of the Head of Department

INFO634-21S2 (C) Semester 2

INFO 635 Special Topic

15 Points 0.1250 EFTS

P: Subject to approval of the Head of Department

R: INFO 353

INFO635-21S2 (C) Semester 2

INFO 680 Research Project

30 Points 0.2500 EFTS

This course is one of individual study under personal supervision. It entails carrying out research over a seven month period, and writing a report about how and why the research was conducted, what was found and the implications of these findings. The course is designed for students completing the B.Com(Hons) degree in information systems.

P: Subject to approval of the Head of Department

R: ACCT 680, ACIS 680, AFIS 680

INFO680-21A (C)**Starts Anytime****INFO680-21W (C)****Whole Year (S1 and S2)****INFO 690 MCom Thesis**

120 Points 1.0000 EFTS

P: Subject to approval of the Head of Department.

R: ACIS 690, AFIS 690

INFO690-21A (C)**Starts Anytime***Part-time enrolment (0.65 EFTS) is available on approval.***INFO 691 MCom Dissertation**

60 Points 0.5000 EFTS

P: Subject to approval of the Head of Department

INFO691-21A (C)**Starts Anytime****INFO 694 MCom Thesis**

90 Points 0.7500 EFTS

P: Subject to approval of the Head of Department

INFO694-21A (C)**Starts Anytime****INFO 790 Information Systems PhD**

120 Points 1.0000 EFTS

P: Subject to approval of the Head of Department.

R: ACIS 790, AFIS 790

INFO790-21A (C)**Starts Anytime**

*Part-time enrolment (0.65 EFTS) is available on approval. *From 1 January 2008, international students who are residing in New Zealand on a NZ Immigration Study Visa pay the Domestic Fee for this course. International fees apply for all other courses.*

Innovation

*Department of Marketing, Management and Entrepreneurship***INOV 200 Opportunities: Here, There and Everywhere**

15 Points 0.1250 EFTS

Students are introduced to the entrepreneurial worldview that opportunities for innovation can be found across geographic, socioeconomic, industry, and cultural boundaries. Students must demonstrate an entrepreneurial mindset through which they constantly seek to recognize innovation opportunities, across multiple contexts. Students are required to identify innovation opportunities that are local, national, and international in scope.

P: Any 60 points

INOV200-21S1 (C)**Semester 1****INOV 201 Will it Fly?: Feasibility Assessment of New Innovation**

15 Points 0.1250 EFTS

This course examines the significant differences between novelty and innovativeness.

Students are expected to demonstrate a fluency with multiple types of analyses in order to ultimately provide a compelling answer to the important question of whether a creative idea is feasible (based on an assessment of physical, financial, market, regulatory, cultural, and other conditions).

P: Any 60 points.

RP: INOV 200

INOV201-21S2 (C)**Semester 2****INOV 202 Emerging Technologies**

15 Points 0.1250 EFTS

A key focus of this course is on how technology can be an enabler of radical changes to competition. In this course students are exposed to leading current technologies in multiple sector settings. Moreover, students are required to demonstrate an understanding of how emerging technologies may potentially contribute to a reordering of winners and losers in a particular competitive space.

P: Any 60 points.

RP: INOV 200

INOV202-21S2 (C)**Semester 2****INOV 290 Enterprise in Practice (Project)**

15 Points 0.1250 EFTS

This course enables students to apply their academic skills and knowledge to a project for a new or existing venture whether that be a for-profit business or social enterprise. The course will enable students to think and be more enterprising and innovative. Students will have the opportunity to use this experience to reflect on their personal career development.

P: 120 points at 100-level or above

R: BSNS 290, ARTS 295, PACE 295

INOV290-20SU2 (C)**Summer (Nov 20)**

International Law and Politics

School of Law

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ILAP 608 World Trade Law

15 Points 0.1250 EFTS

P: Subject to approval of the Programme Director.

R: DIPL 402 (before 2014), DIPL 411, LAWS 338

ILAP608-21S2 (C)**Semester 2****ILAP 609 International Human Rights Law**

15 Points 0.1250 EFTS

P: Subject to approval of the Programme Director.

R: DIPL 421 (before 2014), LAWS 322

ILAP609-21S2 (C)**Semester 2****ILAP 611 Antarctic Legal Studies**

15 Points 0.1250 EFTS

P: Subject to approval of the Programme Director.

R: LAWS 336, LAWS 372

ILAP611-21S1 (C)**Semester 1****ILAP 613 Advanced Principles of Public International Law**

15 Points 0.1250 EFTS

A seminar-based course, involving an advanced study of the principles of public international law. This course is a compulsory component of the LLM (IntLaw&Pols).

P: Subject to approval of the Programme Director.

ILAP613-21S1 (C)**Semester 1****ILAP 614 Principles and Practice of International Relations and Diplomacy**

15 Points 0.1250 EFTS

This course offers a blend of theoretical and practical insight into international relations and diplomacy. The first part of the course will provide foundational knowledge of the principles, theories and historical dimensions of foreign policy and diplomacy. The second part of the course will be composed of a series of intensive professional seminars, providing students with detailed practical insights into complex and difficult cases in international relations and diplomacy through the experiences of those involved in them.

P: Subject to the approval of the Head of School

R: POLS 441

ILAP614-21S1 (C)**Semester 1****ILAP 630 Law of the Sea**

15 Points 0.1250 EFTS

P: Subject to approval of the Programme Director.

R: LAWS 362 prior to 2010; LAWS 364

ILAP630-21S2 (C)**Semester 2****ILAP 634 International Investment Law and Arbitration**

15 Points 0.1250 EFTS

The course examines selected problems in international investment law and arbitration relevant to a New Zealand context. Alternate year offering.

P: Subject to the approval of the Programme Director

R: LAWS 333, ILAP 632, LAWS 371

ILAP634-21S2 (C)**Semester 2**

ILAP 640 Dissertation
 60 Points 0.5000 EFTS
 P: Subject to approval of the Programme Director.
 R: ILAP 650
ILAP640-21FY (C) Full Year (February to February)
ILAP640-21CY (C) Cross Year

ILAP 642 Private International Law
 15 Points 0.1250 EFTS
 This course covers the choice of applicable law in private law disputes, the international jurisdiction of New Zealand courts in civil litigation, and the enforcement of foreign civil judgments in New Zealand.
 P: Subject to the approval of the Programme Director
 R: LAWS 390
ILAP642-21S2 (C) Semester 2

Japanese

School of Language, Social and Political Sciences

JAPA 108 Introduction to Japanese Culture
 15 Points 0.1250 EFTS
 A survey course which covers selected topics of Japan's society, geography, institutions, religion, arts, culture and thought.
JAPA108-21S2 (C) Semester 2

JAPA 125 Elementary Japanese A
 15 Points 0.1250 EFTS
 This course is designed for students with little or no previous knowledge of the Japanese language. Teaching will focus on the four basic language skills of reading, writing, speaking and listening. At the end of the course, students should be able to read and write the kana scripts, know a range of Japanese vocabulary, and understand and actively use some elements of basic modern grammar. They will be able to conduct simple conversations in Japanese and will be familiar with key cultural aspects.
 R: JAPA 141, JAPA 115, JAPA 127
JAPA125-21S1 (C) Semester 1

JAPA 126 Elementary Japanese B
 30 Points 0.2500 EFTS
 This course follows on from JAPA 125 or JAPA 127, and is the entry point for students with NCEA level 2 Japanese or equivalent. Teaching will focus on the four basic language skills of reading, writing, speaking and listening. At the end of the course, students should be able to understand and actively use a wide range of basic modern Japanese grammar and vocabulary, and approximately 120 kanji characters and be familiar with a range of key cultural aspects.
 P: JAPA 125, or NCEA Level 2 Japanese with at least 12 credits, or placement test.
 R: JAPA 142, JAPA 115, JAPA 116
JAPA126-21S2 (C) Semester 2

JAPA 212 Japanese Society and Culture in Film and Literature
 15 Points 0.1250 EFTS
 This course covers outstanding examples of modern (post 1867) and contemporary literature and film, including animated movies. Works covered have been selected both for their artistic merit and for their culturally interesting subject matter. Themes include the conflict between traditional and western values, the colonialism and ethnic minorities such as Okinawa, the effects of the Second World War and the atomic bombings, post-war economic growth and its effect on people's lives, the 1960s-70s student movement, and contemporary postmodern consumer society. The aims of the course are twofold: (a) to provide some basic skills in 'reading' modern Japanese literature and film and (b) to promote an understanding of Japanese society and its people. No knowledge of Japanese language is required.
 P: JAPA 108, or any 60 points at 100 level from the Schedule V of the BA.
JAPA212-21S2 (C) Semester 2

JAPA 214 Special Topic in Japanese Language A
 15 Points 0.1250 EFTS
 This course builds upon the 100-level elementary language courses. By the end of the course students will have acquired a preliminary knowledge of intermediate level Japanese grammar and will also have learned approximately 200 kanji and approximately 1200 words and phrases.
 P: JAPA 126, or NCEA Level 3 Japanese with at least 12 credits, or placement test.
 R: JAPA 151, JAPA 152, JAPA 153, JAPA 154, JAPA 105, JAPA 201, JAPA 215
 RP: Students should be able to read and write all of the katakana and hiragana script as well as at least 150 kanji and have knowledge of basic Japanese grammar and approximately 800 words and phrases.
JAPA214-21S1 (C) Semester 1

JAPA 215 Intermediate Japanese
 45 Points 0.3750 EFTS
 This course builds upon the 100-level elementary language courses. By the end of the course students will have acquired a knowledge of intermediate level Japanese grammar and will also have learned approximately 400 kanji and approximately 2500 words and phrases.
 P: JAPA 126, or NCEA Level 3 Japanese with at least 12 credits, or placement test.
 R: JAPA 151, JAPA 152, JAPA 153, JAPA 154, JAPA 105, JAPA 201
 RP: Students should be able to read and write all of the katakana and hiragana script as well as at least 150 kanji and have knowledge of basic Japanese grammar and approximately 800 words and phrases.
JAPA215-21W (C) Whole Year (S1 and S2)

JAPA 216 Special Topic in Japanese Language
 30 Points 0.2500 EFTS
 JAPA216 is a second semester Japanese language course that is designed for students who know approximately 200 kanji and 1200 words and phrases. Direct entry is by placement test and discussion with the Programme Director. The course builds on all four language learning areas - reading, writing, speaking and listening. By the end of the course an additional 100 kanji and 500 words and phrases will have been mastered.
 P: Placement test or discussion with Programme Director.
 R: JAPA 153, JAPA 154 and JAPA 215.
JAPA216-21S2 (C) Semester 2

JAPA 317 Advanced Japanese Language A
 30 Points 0.2500 EFTS
 The purpose of this course is to prepare students to, on the one hand, conduct research using Japanese materials and, on the other hand, for the work environment through practical training in writing, communicating and giving spoken presentations in Japanese. In addition, the course aims to provide some 'authentic,' real-life experience in using Japanese, and to build community links, through engagement with the Japanese Community/Community of Practice and Learning Community. Students will be given the opportunity to further develop their communicative competence and a variety of other skills through project work. JAPA 317 will build upon the prerequisite courses, JAPA 326 Advancing Japanese B and JAPA305 Japanese Language 3.
 P: Subject to approval of the Programme Head.
 R: JAPA 414
JAPA317-21S1 (C) Semester 1

JAPA 318 Advanced Japanese Language B
 30 Points 0.2500 EFTS
 The purpose of this course is to prepare students to, on the one hand, conduct research using Japanese materials and, on the other hand, for the work environment through practical training in writing, communicating and giving oral presentations in Japanese. In addition, the course aims to provide some 'authentic,' real-life experience in using Japanese, and to build community links, through engagement with the Japanese Community/Community of Practice and Learning Community. Students will be given the opportunity to further develop their communicative competence and a variety of other skills through project work and field trips. JAPA 318 will build upon the prerequisite course, JAPA 317 Advancing Japanese A.
 P: JAPA 317 or equivalent subject to approval of the Programme Head.
 R: JAPA 415
JAPA318-21S2 (C) Semester 2

JAPA 325 Advancing Japanese A
 30 Points 0.2500 EFTS
 This course builds upon JAPA 215. Teaching will focus on the four basic language skills of reading, writing, speaking and listening. By the end of the course students will have acquired a knowledge of upper intermediate / advanced level Japanese and be familiar with complex socio-cultural issues in modern Japan. As well as text-based learning, there will be a focus on task and project-based learning, which will equip students better to apply their language abilities in the workforce or in postgraduate-level learning.
 P: JAPA 215 or JAPA 216, or placement test.
 R: JAPA 205, JAPA 305, JAPA 315, JAPA 319
JAPA325-21S1 (C) Semester 1

JAPA 326 Advancing Japanese B
 30 Points 0.2500 EFTS
 This course builds upon JAPA 325. Teaching will focus on the four basic language skills of reading, writing, speaking and listening. By the end of the course students will have acquired advanced Japanese language ability and be familiar with complex socio-cultural issues in modern Japan. As well as text-based learning, there will be a focus on task and project-based learning, which will equip students better to apply their language abilities in the workforce or in postgraduate-level learning.
 P: JAPA 325, or placement test.
 R: JAPA 305, JAPA 315
JAPA326-21S2 (C) Semester 2

PACE 395 Internship

30 Points 0.2500 EFTS

What can you do with your major? With your degree? The purpose of the internship course is to explore both the ideological and practical assumptions guiding this question. The course is designed to be a critical, theoretical and "real-world" examination of the practices and ideologies inherent in both community and business organisations. You will apply the analytical skills acquired through your major, and through class seminars and readings, to a project designed by a local company or community group. Please check out the website for further information and specific project descriptions: www.arts.canterbury.ac.nz/internships

P: 150 points, special application and interview, and permission of the Internship Director.

R: ARTS 395

EQ: ARTS 395

PACE395-20SU2 (C) Summer (Nov 20)

PACE395-21A (C) Starts Anytime

PACE395-21S1 (C) Semester 1

PACE395-21S2 (C) Semester 2

Limited entry. See limitation of entry regulations. A student will be selected for a specific project.

Only students accepted for projects will be allowed into the course. Please go to <http://www.arts.canterbury.ac.nz/internships> for more information.

Tāura | Postgraduate

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JAPA 414 Advanced Japanese Language A

15 Points 0.1250 EFTS

The purpose of this course is to prepare students to conduct research using Japanese materials. It will build upon the prerequisite course, JAPA414: Advanced Japanese Language A. On successful completion of JAPA414, the student should be able to read, comprehend, and summarise articles on various topics in standard modern Japanese.

P: JAPA 326 with at least a B pass, or ARA course BLJA 702 with at least a B pass, and subject to approval of the Programme Director.

R: JAPA 317, JAPA 407

JAPA414-21S1 (C) Semester 1

JAPA 415 Advanced Japanese Language B

15 Points 0.1250 EFTS

The purpose of this course is to prepare students to conduct research using Japanese materials. It will build upon the prerequisite course, JAPA414: Advanced Japanese Language A. On successful completion of JAPA415, the student should be able to read, comprehend, and critique articles on various topics in standard modern Japanese.

P: JAPA 414 and subject to approval of the Programme Director.

R: JAPA 318, JAPA 407

JAPA415-21S2 (C) Semester 2

JAPA 420 Readings in Contemporary Japanese Literature: 1980s to the present

15 Points 0.1250 EFTS

The course introduces students to Japanese literary texts from the 1980s to the present. A selection of short stories and poetry by a range of contemporary authors, including Okinawan-Japanese novelists, are read and studied in the original Japanese. Students are introduced to various major literary and other theoretical discourses and these are then applied to analyze the texts from both literary and sociological points of view. Training is also provided in the translation of Japanese literary texts.

P: Subject to approval of the Programme Director.

R: JAPA 405

JAPA420-21S2 (C) Semester 2

JAPA 480 Research Essay

30 Points 0.2500 EFTS

In this course, students explore a research topic of their choice under the supervision of an appropriate staff member. This course is compulsory for all Honours students.

P: Subject to approval of the Programme Director.

JAPA480-21W (C) Whole Year (S1 and S2)

JAPA480-21S2 (C) Semester 2

JAPA 650 MA Dissertation

60 Points 0.5000 EFTS

MA Dissertation

P: Subject to the approval of the Head of Department.

JAPA650-21A (C) Starts Anytime

JAPA650-21S1 (C) Semester 1

JAPA650-21S2 (C) Semester 2

Part-time enrolment (0.65 EFTS) is available on approval.

JAPA 690 MA Thesis

120 Points 1.0000 EFTS

P: Subject to approval of the Programme Director.

JAPA690-21A (C) Starts Anytime

Part-time enrolment (0.65 EFTS) is available on approval.

LANC 401 In Other Words What? Theory and Practice of Translation

30 Points 0.2500 EFTS

An introduction to Translation Studies for students skilled in two or more languages, including aspects of modern theory and practice in the craft of accurate translation.

P: Subject to approval of the Head of Programme.

LANC401-21S1 (C) Semester 1

JAPA 790 Japanese PhD

120 Points 1.0000 EFTS

P: Subject to approval of the Head of School.

JAPA790-21A (C) Starts Anytime

Part-time enrolment (0.65 EFTS) is available on approval. *From 1 January 2008, international students who are residing in New Zealand on a NZ Immigration Study Visa pay the Domestic Fee for this course. International fees apply for all other courses.

Journalism**School of Language, Social and Political Sciences**

Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.

JOUR 790 Journalism PhD

120 Points 1.0000 EFTS

P: Subject to approval of the Head of School.

JOUR790-21A (C) Starts Anytime

Part-time enrolment (0.65 EFTS) is available on approval. *From 1 January 2008, international students who are residing in New Zealand on a NZ Immigration Study Visa pay the Domestic Fee for this course. International fees apply for all other courses.

Languages and Cultures**School of Language, Social and Political Sciences**

Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.

LANC 401 In Other Words What? Theory and Practice of Translation

30 Points 0.2500 EFTS

An introduction to Translation Studies for students skilled in two or more languages, including aspects of modern theory and practice in the craft of accurate translation.

P: Subject to approval of the Head of Programme.

LANC401-21S1 (C) Semester 1

LANC 407 Advanced Language Acquisition and Specialised Translation/ Interpreting Study Abroad

60 Points 0.5000 EFTS

This course comprises a set of advanced language acquisition and/or translation and interpreting modules in the student's major language at a partner university in the country of the student's major language. The course is administered through existing exchange arrangements with UC's partner institutions and is equivalent to ZZEX. The overseas institution courses for LANC404 will be selected with guidance by a staff member from the relevant language programme and are subject to approval by the MATI Programme Coordinator. Enrolment in the course will follow normal procedures for student exchange at UC.

P: Subject to the approval of the Head of Department.

LANC407-21S2 (D) Semester 2

Law

School of Law

LAWS 101 Legal System: Legal Method and Institutions

30 Points

0.2500 EFTS

The course aims to provide a foundation in the skills of legal method, comprising case analysis, statutory interpretation and legal reasoning. It also introduces, and gives a descriptive outline of, the legal systems in New Zealand and England, including the structure of the courts, the sources of law, the classification of substantive law, dispute resolution and legal services.

C: LAWS 110

R: CRJU 150

LAWS101-21W (C)

Whole Year (S1 and S2)

LAWS 110 Legal Foundations, Research and Writing

15 Points

0.1250 EFTS

The course aims to provide a foundation in the skills of legal research and legal writing together with an academic grounding in topics fundamental to the New Zealand legal system. The course will involve training by way of proactive exercises in legal research and legal writing. It will also examine the historical development of New Zealand's legal system, fundamental constitutional doctrines and the significance of the Treaty of Waitangi within the New Zealand legal system.

C: LAWS 101

LAWS110-21S1 (C)

Semester 1

LAWS 202 Criminal Law

30 Points

0.2500 EFTS

The general principles of criminal liability. The law relating to indictable and other selected offences chargeable under New Zealand law. Procedure on indictment and summary procedure (excluding evidence).

P: LAWS 203, LAWS 205 and LAWS 206

C: LAWS 204, LAWS 301

LAWS202-21W (C)

Whole Year (S1 and S2)

Limited entry. See limitation of entry regulations.

LAWS 203 The Law of Contract

30 Points

0.2500 EFTS

The general principles of governing the formation of contracts, vitiating elements, breach of contract and remedies.

P: LAWS 101 and LAWS 110

C: LAWS 205 and LAWS 206

LAWS203-21W (C)

Whole Year (S1 and S2)

Limited entry. See limitation of entry regulations.

LAWS 204 The Law of Torts

30 Points

0.2500 EFTS

General principles of civil liability. The law as to the various kinds of torts. The law relating to compensation for personal injury by accident in New Zealand.

P: LAWS 101 and LAWS 110

C: LAWS 203, LAWS 205 and LAWS 206

LAWS204-21W (C)

Whole Year (S1 and S2)

Limited entry. See limitation of entry regulations.

LAWS 205 Land Law

30 Points

0.2500 EFTS

The history and principles of land law.

P: LAWS 101 and LAWS 110

C: LAWS 203 and LAWS 206

LAWS205-21W (C)

Whole Year (S1 and S2)

Limited entry. See limitation of entry regulations.

LAWS 206 Public Law

30 Points

0.2500 EFTS

The principles and working of the constitution, the institutions of government, the exercise of public power and relations between the citizen and the state. Controls on the exercise of public power, including an introduction to judicial review.

P: LAWS 101 and LAWS 110

C: LAWS 203 and LAWS 205

LAWS206-21W (C)

Whole Year (S1 and S2)

Limited entry. See limitation of entry regulations.

LAWS 301 Equity and Trusts

15 Points

0.1250 EFTS

The principles of equity with particular reference to the law of trusts. The principles of the law of succession and of the administration of estates. Choses in action and their assignment.

P: LAWS 203, LAWS 205 and LAWS 206

C: LAWS 202 and LAWS 204

LAWS301-21S1 (C)

Semester 1

LAWS 303 Advanced Employment Law

15 Points

0.1250 EFTS

The course aims to provide a sound academic grounding in key areas of advanced employment law. It will examine the key topics of freedom of association, unions, collective bargaining and strikes and lockouts, as well as selected topics drawn from areas such as institutional employment law, discrimination, occupational safety and health, and privacy.

P: LAWS 363

C: LAWS 202-LAWS 206

R: LAWS 318

LAWS303-21S2 (C)

Semester 2

LAWS 305 Company Law

15 Points

0.1250 EFTS

The course aims to provide a sound academic grounding in key areas of company law. It will examine the key topics of company incorporation, separate corporate personality, company constitutions and shareholder agreements, company capacity, legal relationships with third parties, company liability for criminal and civil wrongs, allocation of power within a company, shareholders in general meeting, the board of directors, duties of directors, equity financing, accounts and disclosure, and enforcement.

C: LAWS 202-LAWS 206

R: LAWS 312

LAWS305-21S1 (C)

Semester 1

LAWS 306 Special Topic: Law and Transition to the Workplace

15 Points

0.1250 EFTS

This dynamic final year capstone course reinforces and consolidates what LLB students have learned in the whole LLB degree program. It allows them to demonstrate their mastery, analysis and synthesis of legal knowledge and skills. Students will engage with a case study involving all their legal skills such as drafting documents, giving advice and using negotiation and mediation skills. They will also take part in group work and oral presentations. Other sections of the course cover wellness and resilience, bi-cultural skills in a multi-cultural society, career readiness, technology and work, the culture of law and the reality of legal work and workplaces. The main aim is that law students will graduate with strengthened employability as a graduate attribute and be able to move more easily into workplaces where they will be using their LLB.

P: (i) LAWS 202 - LAWS 206; (ii) Subject to the approval of the Head of Department.

C: LAWS 301

LAWS306-21S1 (C)

Semester 1

Limited entry. See limitation of entry regulations.

LAWS 307 The Principles of Evidence

15 Points

0.1250 EFTS

The course aims to provide a sound academic grounding in key principles of the law of evidence. It will examine the key topics of relevance, reliability, probative value, illegitimate prejudice, the influence of human rights, burden of proof, rules of inadmissibility (including hearsay, veracity and propensity and privilege), and trial procedure. In focusing on these key aspects of the law of evidence this course will adopt a strong principle based approach in which the theoretical underpinnings of the development of the law will be examined and discussed.

C: LAWS 202-LAWS 206

R: LAWS 316, CRJU 308

EQ: CRJU 308

LAWS307-21S2 (C)

Semester 2

LAWS 309 Child and Family Law

15 Points

0.1250 EFTS

The course aims to provide a sound academic grounding in key areas of Child and Family Law, including Dispute Resolution, Guardianship, Parenting Orders, Child Abduction, Child Abuse and Domestic Violence.

C: LAWS 202-LAWS 206

R: LAWS 317

LAWS309-21S1 (C)

Semester 1

LAWS 310 Relationship Property and Family Finance

15 Points

0.1250 EFTS

The course aims to provide a sound academic grounding in the Property (Relationships) Act 1976, Child Support Act 1991, and the adult maintenance provisions of the Family Proceedings Act 1980.

C: LAWS 202-LAWS 206

R: LAWS 317

LAWS310-21S2 (C)

Semester 2

LAWS 320 NZ Bill of Rights Act 1990

15 Points 0.1250 EFTS

The course focuses on the New Zealand Bill of Rights Act 1990, and involves consideration of the origins and theory behind the legislation and comparison with similar laws in other jurisdictions. There will be case studies of certain protected rights (eg freedom of speech, rights to legal representation in criminal trials, freedom from unreasonable search and seizure).

C: LAWS 202-206

LAWS320-21S1 (C) Semester 1**LAWS 322 International Human Rights**

15 Points 0.1250 EFTS

An introduction to international human rights instruments and institutions.

C: LAWS 202-LAWS 206

LAWS322-21S2 (C) Semester 2**LAWS 323 Immigration and Refugee Law**

15 Points 0.1250 EFTS

An examination of selected domestic and international issues in immigration and refugee law.

C: LAWS 202-LAWS 206

LAWS323-21S1 (C) Semester 1**LAWS 324 Principles of Public International Law**

15 Points 0.1250 EFTS

The principles of the laws of nations in peace, war and neutrality, and selected issues.

C: LAWS 202-LAWS 206

R: LAWS 342, LAWS 375 (prior to 2006)

LAWS324-21S1 (C) Semester 1**LAWS 326 Treaty Settlement Negotiations**

15 Points 0.1250 EFTS

An examination of the New Zealand Treaty of Waitangi claims settlement process. This course provides an introduction to the wider context of Treaty settlements including legislation, policy and specific negotiations.

C: LAWS 202-LAWS 206

LAWS326-21S1 (C) Semester 1**LAWS 330 Intellectual Property Law**

15 Points 0.1250 EFTS

An introduction to intellectual property law in New Zealand, including copyright, registered trade marks, passing off, and patents.

C: LAWS 202-LAWS 206

LAWS330-21S2 (C) Semester 2**LAWS 331 Commercial Law I: Sales and Consumer Law**

15 Points 0.1250 EFTS

The course involves a detailed study of the law relating to sale of goods, consumer guarantees, fair trading and other consumer protection legislation.

C: LAWS 202-206

R: LAWS 311

LAWS331-21S1 (C) Semester 1**LAWS 332 Commercial Law II: Personal Property Security and Credit**

15 Points 0.1250 EFTS

The course involves a detailed study of the law relating to personal securities, as well as associated topics such as credit contracts.

C: LAWS 202-LAWS 206

R: LAWS 311

LAWS332-21S2 (C) Semester 2**LAWS 335 Insolvency Law**

15 Points 0.1250 EFTS

An examination of selected personal and corporate law insolvency issues.

C: LAWS 202 - 206

LAWS335-21S2 (C) Semester 2**LAWS 336 Antarctic Legal Studies**

15 Points 0.1250 EFTS

This course is offered in alternate years.

C: LAWS 202-LAWS 206

R: LAWS 372 (prior to 2006), ANTA 402

LAWS336-21S1 (C) Semester 1**LAWS 338 World Trade Law**

15 Points 0.1250 EFTS

An examination of the major agreements and institutions relating to international trade and development.

C: LAWS 202-LAWS 206

LAWS338-21S2 (C) Semester 2**LAWS 339 Negotiation and the Lawyer**

15 Points 0.1250 EFTS

Theory and practice of negotiation, lawyers' roles and professional responsibility.

C: LAWS 202-LAWS 206

R: LAWS 369 (prior to 2006)

LAWS339-20SU2 (C) Summer (Nov 20)*Limited entry. See limitation of entry regulations.***LAWS 344 Gender and the Law**

15 Points 0.1250 EFTS

This course will provide an introduction to feminist legal theory and analyse areas of law that raise gender issues, including in a bicultural context.

C: LAWS 202-LAWS 206

LAWS344-21S2 (C) Semester 2**LAWS 348 Research Project**

15 Points 0.1250 EFTS

Note: Students must have a B average in LAWS courses in order to enrol in this course.

P: Head of Department permission mandatory

C: LAWS 202-LAWS 206

R: LAWS 379 (prior to 2006)

LAWS348-21S1 (C) Semester 1**LAWS348-21S2 (C)** Semester 2**LAWS 352 Taxation Law**

15 Points 0.1250 EFTS

An introduction to income tax. The course also includes consideration of taxpayers' rights and obligations, tax planning and tax avoidance, the role of lawyers in tax investigations and dispute resolution, comparative tax law and practice.

C: LAWS 202-LAWS 206

R: LAWS 394 (1999), LAWS 395 (2000-2001)

LAWS352-21S2 (C) Semester 2**LAWS 356 Special Topic: Selected Topics in Natural Resource Law**

15 Points 0.1250 EFTS

The purpose of this course is to provide students with an introduction to selected topics in natural resource law in New Zealand including: mining and energy law; the specific legislative, administrative and common law regimes for selected natural resources; the interaction of relevant statutes with the Resource Management Act 1991; the ability to own natural resources; the relationship of that ownership to the ownership of land; the role of private property in resource management, and Māori claims to natural resources.

C: LAWS 202 - LAWS 206

RP: LAWS 205

LAWS356-21S2 (C) Semester 2**LAWS 357 Special Topic: Banking and Financial Regulation in the FinTech Age**

15 Points 0.1250 EFTS

This course aims to give students a solid understanding of the international and national financial regulatory framework and main pieces of financial regulatory legislation.

C: LAWS 202-LAWS 206

LAWS357-21S2 (C) Semester 2**LAWS 359 Trial Advocacy**

15 Points 0.1250 EFTS

Theory and practice of trial advocacy.

P: LAWS 316 or LAWS 307.

C: LAWS 202-LAWS 206

R: LAWS 389 (prior to 2006)

LAWS359-21S1 (C) Semester 1*Limited entry. See limitation of entry regulations.***LAWS 363 Individual Employment Law**

15 Points 0.1250 EFTS

The course aims to provide a sound academic grounding in key areas of individual employment law. It will examine the key topics of classifying the employer/employee relationship, formation of individual employment agreements, operation of individual employment agreements,

including interrelationship with collective agreements, and principles relevant to termination, with particular reference to the personal grievance jurisdiction.

C: LAWS 202-206

R: LAWS 318

LAWS363-21S1 (C) Semester 1

LAWS 364 Law of the Sea

15 Points 0.1250 EFTS

An examination of the principal instruments relating to the law of the sea with particular focus on modern ocean management techniques and current regulatory challenges such as maritime security and marine environmental protection. This course is offered in alternate years.

C: LAWS 202-LAWS 206

R: LAWS 362 prior to 2010, ILAP 630

LAWS364-21S2 (C) Semester 2

LAWS 365 Issues in Policing, Prosecution and Alternatives to Prosecution

15 Points 0.1250 EFTS

Policing theories; police powers to arrest and search; prosecution process, diversion, restorative justice; youth justice; alternatives to traditional court prosecution of offenders; Criminal Procedure (Mentally Impaired Persons Act) 2003

C: LAWS 202-LAWS 206

R: LAWS 337, CRJU 307

EQ: CRJU 307

LAWS365-21S2 (C) Semester 2

LAWS 366 Sentencing Theory and Practice

15 Points 0.1250 EFTS

Theoretical bases for sentencing: just deserts, utilitarianism and other theories. Plea negotiation. Sentencing Act 2002- process, principles and practice. Probation and parole. Proceeds of Crime legislation.

C: LAWS 202-LAWS 206

R: LAWS 337; CRJU 301

EQ: CRJU 301

LAWS366-21S1 (C) Semester 1

LAWS 367 Special Topic: AI Regulation

15 Points 0.1250 EFTS

This course aims to give students a solid understanding of the concept of artificial intelligence, the existing spectrum of AI technologies, and ethical and legal questions related to their use.

C: LAWS 202-LAWS 206

LAWS367-21S1 (C) Semester 1

LAWS 371 International Investment Law and Arbitration

15 Points 0.1250 EFTS

The course examines selected problems in international investment law and arbitration relevant to a New Zealand context. Alternate year offering.

C: LAWS 202-LAWS 206

R: LAWS 333 and ILAP 634

LAWS371-21S2 (C) Semester 2

LAWS 373 Washington Internship

15 Points 0.1250 EFTS

Enrolment is open to recipients of Washington Internship only. In any year only two awards will be made. Application details are available from the School of Law.

P: Subject to approval of the Head of Department.

LAWS373-21A (C) Starts Anytime

LAWS 378 Genetics, Neuroscience and the Criminal Law

15 Points 0.1250 EFTS

This course will consider the legal and ethical issues involved in the use of genetic and neuroscientific evidence during criminal investigations and criminal proceedings. This course is offered in alternate years.

P: (1) LAWS 202, or (2) CRJU 202 and 45 additional points at 200 level from Schedule C to the Bachelor of Criminal Justice and Head of Department Approval.

C: LAWS 203-LAWS 206

R: CRJU 313

LAWS378-21S2 (C) Semester 2

LAWS 382 Legal Internship

15 Points 0.1250 EFTS

Study of theoretical and practical issues relating to legal services.

P: Subject to approval of Head of School.

C: LAWS 202-LAWS 206

LAWS382-21S1 (C) Semester 1

LAWS382-21S2 (C) Semester 2

The Summer offering is subject to Limitation of Entry: See limitation of entry regulations.

LAWS 386 Clinical Legal Studies

15 Points 0.1250 EFTS

The Clinical Legal Studies (CLS) course provides students with applied legal skills and selected management skills training in a context that replicates actual legal practice in the business and legal services environment. Part of the course offering is assisting actual clients with legal and business-related problems, and partnering with pro bono lawyers and the Community Law Centre to take legal action in suitable cases. The course will also have the objective of promoting an ethos of effective client-service, and promoting the law as a tool for pro-actively solving problems, not merely reactively responding to problems.

P: LAWS 202-LAWS 206

LAWS386-21S2 (C) Semester 2

LAWS 390 Private International Law

15 Points 0.1250 EFTS

This course covers the choice of applicable law in private law disputes, the international jurisdiction of New Zealand courts in civil litigation, and the enforcement of foreign civil judgments in New Zealand.

C: LAWS 202-LAWS 206

LAWS390-21S2 (C) Semester 2

LAWS 391 Māori Land Law

15 Points 0.1250 EFTS

An introduction to the law relating to Māori land and related resources.

C: LAWS 202-LAWS 206

LAWS391-21S1 (C) Semester 1

LAWS 393 Advanced Land Law

15 Points 0.1250 EFTS

Advanced study of contemporary concepts of real property. This course is offered in alternate years.

P: LAWS 205

C: LAWS 202-LAWS 204, LAWS 206

LAWS393-21S1 (C) Semester 1

LAWS 396 Media Law

15 Points 0.1250 EFTS

C: LAWS 202-LAWS 206

R: COMS 233

LAWS396-21S2 (C) Semester 2

LAWS 398 Legal Ethics

15 Points 0.1250 EFTS

An introduction to ethical theories and their applicability to legal practice. The concept of a profession and the duties and responsibilities of lawyers.

C: LAWS 202-LAWS 206

R: LAWS 370 (prior to 2006), LAWS 399 (prior to 2006)

LAWS398-21S1 (C) Semester 1

LLAW 302 Special topic : Food law and commercialisation

15 Points 0.1250 EFTS

Food law and commercialisation examines the local and international policy and regulatory environment for food, before examining specific issues with food regulation and the practice of food commercialisation.

C: LAWS 202-LAWS 206

LLAW302-20SU2 (C) Summer (Nov 20)

Tāura | Postgraduate

Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.

LAWS 410 Advanced Research Skills

15 Points 0.1250 EFTS

P: Subject to approval of the Head of Department

R: LAWS 401 and LAWS 670

EQ: LAWS 670

LAWS410-21S1 (C) Semester 1

Honours candidates only. Entry to the Honours programme is by invitation.

LAWS 420 Honours Research Paper

15 Points 0.1250 EFTS

P: LAWS 410

R: LAWS 401

LAWS420-21S2 (C) Semester 2*Honours candidates only. Entry to the Honours programme is by invitation.***LAWS 430 Honours Dissertation**

30 Points 0.2500 EFTS

P: Subject to approval of the Head of Department.

R: LAWS 451, LAWS 501

LAWS430-21W (C) Whole Year (S1 and S2)*Honours candidates only. Entry to the Honours programme is by invitation.***LAWS 670 Legal Research Methods**

15 Points 0.1250 EFTS

The course aims to provide advanced skills, knowledge and tools of legal research and legal writing together with an academic grounding in the process of questioning and reflection fundamental to the international and domestic legal system, in order to enable students to seek answers to the legal questions that interest them. It will provide students with a thorough grounding in the nature and practicalities of legal research and writing, including the construction of research proposals, questions and strategies, and will equip students with the necessary capabilities to conduct independent legal research. Students will demonstrate that they are able to produce a 1200-word research proposal on a legal topic which identifies a complex topic suitable for an advanced and original legal research paper and plan a programme of research using an appropriate legal research methodology.

P: Admission to LLM candidature. Head of Department Mandatory.

R: LAWS 410

EQ: LAWS 410

LAWS670-21S1 (C) Semester 1**LAWS 671 Legal Research Paper 1**

15 Points 0.1250 EFTS

The aims for the course are for students to be able to engage in self-directed learning and study. Students will produce a 7000-word legal research paper, based on highly-developed legal research and writing skills; a critical understanding of the key principles relevant to the subject of the legal research paper; and the ability to analyse key issues relevant to a legal problem of some complexity and to offer solutions to that problem.

P: Admission to LLM candidature. Head of Department Mandatory.

LAWS671-21FY (C) Full Year (February to February)**LAWS671-21CY (C) Cross Year****LAWS 672 Legal Research Paper 2**

15 Points 0.1250 EFTS

The aims for the course are for students to be able to engage in self-directed learning and study. Students will produce a 7000-word legal research paper, based on highly-developed legal research and writing skills; a critical understanding of the key principles relevant to the subject of the legal research paper; and the ability to analyse key issues relevant to a legal problem of some complexity and to offer solutions to that problem.

P: Admission to LLM candidature. Head of Department Mandatory.

LAWS672-21FY (C) Full Year (February to February)**LAWS672-21CY (C) Cross Year****LAWS 673 Legal Research Paper 3**

15 Points 0.1250 EFTS

The aims for the course are for students to be able to engage in self-directed learning and study. Students will produce a 7000-word legal research paper, based on highly-developed legal research and writing skills; a critical understanding of the key principles relevant to the subject of the legal research paper; and the ability to analyse key issues relevant to a legal problem of some complexity and to offer solutions to that problem.

P: Admission to LLM candidature. Head of Department Mandatory.

LAWS673-21FY (C) Full Year (February to February)**LAWS673-21CY (C) Cross Year****LAWS 674 Legal Dissertation**

60 Points 0.5000 EFTS

The aims of the course are for students to be able to engage in self-directed learning and study. Students will demonstrate that they are able to produce a 20,000-word legal dissertation on a legal topic which demonstrates that they have advanced legal research and writing skills; advanced technical and/or theoretical knowledge relevant to the subject of the dissertation illustrated by a critical understanding of key principles; analytical and critical skills such that they can analyse the legal issues arising out of a complex legal problem and generate and then evaluate possible solutions. Students will be able to orally present and defend their research to an audience of legal experts using advanced oral presentation skills.

P: Admission to LLM candidature. Head of Department Mandatory.

LAWS674-21FY (C) Full Year (February to February)**LAWS674-21CY (C) Cross Year****LAWS 690 LLM Thesis**

120 Points 1.0000 EFTS

P: Admission to LLM candidature. Head of Department Mandatory.

LAWS690-21A (C) Starts Anytime*Part-time enrolment (0.65 EFTS) is available on approval.***LAWS 790 Law PhD**

120 Points 1.0000 EFTS

P: Subject to approval of the Head of Department.

LAWS790-21A (C) Starts Anytime

*Part-time enrolment (0.65 EFTS) is available on approval. *From 1 January 2008, international students who are residing in New Zealand on a NZ Immigration Study Visa pay the Domestic Fee for this course. International fees apply for all other courses.*

Linguistics

School of Language, Social and Political Sciences

LING 101 The English Language

15 Points 0.1250 EFTS

This course introduces students to the study of the English language, its words, sounds and sentences. It also introduces the conceptual and analytical tools which linguists use to understand how languages are constructed.

R: ENGL 123, ENLA 101

LING101-20SU2 (D) Summer (Nov 20)**LING101-21S1 (C) Semester 1****LING101-21S1 (D) Semester 1****LING 102 Language and Society in New Zealand and Beyond**

15 Points 0.1250 EFTS

What do babies know about language when they're born? And how do our experiences as we get older affect both how we use language and what we think about other people's language behaviour? Why, for example, do people think some languages, or some dialects, are 'better' than others? And is there any truth behind such beliefs? In this course we consider a range of research from the field of linguistics that addresses these and other questions. The role of language experience will emerge as a recurrent theme: the experience that the infant has with a particular language; how our early experience with language affects how we speak and how we listen, and how our beliefs about language are created and maintained in connection to other experiences in our social lives.

R: ENLA 102

EQ: ENLA 102

LING102-21S2 (D) Semester 2**LING102-21S2 (C) Semester 2****LING 210 Sociolinguistic methods**

15 Points 0.1250 EFTS

This course explores the sociolinguistic study of language variation and change. We examine how language varies both between individuals (e.g. accents) and within individuals (e.g. style). You will also learn transferable research skills. Students will record a sociolinguistic interview and analyse it to uncover hidden linguistic patterns.

P: Any 15 points at any level from any subject.

R: LING 203, ENLA 210

LING210-21S2 (C) Semester 2**LING210-21S2 (D) Semester 2****LING 215 Phonetics: The sounds of speech**

15 Points 0.1250 EFTS

This course is about phonetics - understanding how speech sounds are made. In the first part of the course, we learn how people articulate sounds. In the second part, we learn how to measure speech sounds using computer software. We will also learn how these skills can help us understand important issues in accent change, forensic linguistics, and speech pathology.

P: Any 15 points at any level from LING.

R: CMDS 231

LING215-21S1 (C) Semester 1**LING215-21S1 (D) Semester 1****LING 216 Phonology and Morphology**

15 Points 0.1250 EFTS

How do languages organize sound systems to create words, and how do they combine small meaningful units to make larger complex words? Students will get hands-on experience discovering patterns in many languages, and will gain an understanding of how these patterns may be shaped by the cognitive properties of speakers and listeners.

P: Any 15 points at any level from LING.

R: LING 207, LING 302

LING216-21S2 (C) Semester 2**LING216-21S2 (D) Semester 2**

LING 217 Grammatical structure

15 Points 0.1250 EFTS

This course introduces grammatical structures in both morphology (words) and syntax (sentences). Both types of structure are essential parts of how languages encode meaning. The goal of the course is to understand both the range of structures that are found in language as well as how morphological and syntactic structure interacts.

P: Any 15 points at any level from LING.

R: LING 201, LING 206, LING 211

LING217-21S2 (C) Semester 2

LING217-21S2 (D) Semester 2

LING 219 Language Acquisition

15 Points 0.1250 EFTS

This course deals with key aspects of how human language is acquired by children, from infancy to adolescence. Selected topics in bilingual and second language development are also covered.

P: Any 15 points at any level from any subject.

R: CMDS 221, LING 205

LING219-21S1 (C) Semester 1

LING219-21S1 (D) Semester 1

LING 223 Text Analytics

15 Points 0.1250 EFTS

This course introduces quantitative methods for understanding the vast amount of information and human knowledge that has been stored in the form of text data.

P: 15 points at any level from any subject.

R: DIGI 223

EQ: DIGI 223

LING223-21S1 (C) Semester 1

LING223-21S1 (D) Semester 1

LING 225 Forensic Linguistics

15 Points 0.1250 EFTS

How can we use linguistic evidence to solve crimes? What does linguistic analysis tell us about legal language? In this course, students learn how to use linguistics for forensic purposes. What can a piece of spoken or written language tell us about its authors? Can linguistic analysis expose inequalities in the legal system? What are the implications of using linguistic evidence for commercial or defense purposes?

P: Any 15 points at any level from any subject.

LING225-21S2 (C) Semester 2

LING225-21S2 (D) Semester 2

LING 306 Topics in Syntactic Theory

30 Points 0.2500 EFTS

This course follows on from second-year syntax, covering selected advanced topics and current research in syntactic theory.

P: LING 217

LING306-21S1 (C) Semester 1

LING306-21S1 (D) Semester 1

LING 307 Topics in Phonetics and Phonology

30 Points 0.2500 EFTS

This course follows on from second-year phonetics and phonology, covering selected advanced topics and current research in phonetics and phonological theory.

P: LING 215

R: LING 301, LING 311

LING307-21S2 (C) Semester 2

LING307-21S2 (D) Semester 2

LING 310 Linguistic Research and New Zealand English

30 Points 0.2500 EFTS

Research on New Zealand English has taught us a lot about how language varies and changes. In this course, you will carry out your own research project on New Zealand English, using our internationally renowned language databases, or by collecting your own data using a questionnaire or language experiment. You will do real research, in a collaborative research lab environment. The best projects are submitted to academic journals for possible publication.

P: Any 15 points at 200 level from LING.

R: ENLA 310

LING310-21S2 (C) Semester 2

LING310-21S2 (D) Semester 2

LING 320 History of English

30 Points 0.2500 EFTS

This course explores language variation and change, and illustrates these notions through a survey of the way in which English has varied and changed during its recorded history. It will look both at the social history of the language and the linguistic changes that have taken place over the last 1400 years.

P: LING 101 and any 15 points at 200 level from any subject.

R: LING 220, ENLA 320

RP: Any LING 200 level course

LING320-21S1 (C) Semester 1

LING320-21S1 (D) Semester 1

PACE 395 Internship

30 Points 0.2500 EFTS

What can you do with your major? With your degree? The purpose of the internship course is to explore both the ideological and practical assumptions guiding this question. The course is designed to be a critical, theoretical and "real-world" examination of the practices and ideologies inherent in both community and business organisations. You will apply the analytical skills acquired through your major, and through class seminars and readings, to a project designed by a local company or community group. Please check out the website for further information and specific project descriptions: www.arts.canterbury.ac.nz/internships

P: 150 points, special application and interview, and permission of the Internship Director.

R: ARTS 395

EQ: ARTS 395

PACE395-20SU2 (C) Summer (Nov 20)

PACE395-21A (C) Starts Anytime

PACE395-21S1 (C) Semester 1

PACE395-21S2 (C) Semester 2

Limited entry. See limitation of entry regulations. A student will be selected for a specific project. Only students accepted for projects will be allowed into the course. Please go to <http://www.arts.canterbury.ac.nz/internships> for more information.

Tāura | Postgraduate

Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.

LING 400 English Structures

30 Points 0.2500 EFTS

This course is an intensive introduction to the linguistic structures of English, covering pronunciation (phonetics & phonology) and grammar (syntax & semantics). A key feature of the course is one of comparison - in part one we compare pronunciation systems across varieties of English and other languages, and in part two we compare the sentence structure of English to that of other languages. This course will be valuable for anyone planning to teach English as an additional language, or those who want a detailed introduction to the analytical tools linguists use to study English and other languages.

P: Subject to approval of the Head of Department.

LING400-20SU2 (D) Summer (Nov 20)

LING 410 Variation and Theory

30 Points 0.2500 EFTS

Advanced study of aspects of the use of language in social contexts.

P: Subject to approval of the Head of Department.

LING410-21S1 (C) Semester 1

LING410-21S1 (D) Semester 1

LING 412 Sociophonetic Research

30 Points 0.2500 EFTS

Aspects of socially-conditioned phonetic variation in speech. These include sound change, social and regional variation, phonetic style-shifting, and the study of how socially-conditioned phonetic variation can be accommodated by models of speech perception and production.

P: Subject to approval of the Head of Department.

LING412-21S2 (C) Semester 2

LING412-21S2 (D) Semester 2

LING 480 Research Essay

30 Points 0.2500 EFTS

P: Subject to approval of the Head of Department.

LING480-21S2 (C) Semester 2

LING480-21S2 (D) Semester 2

LING 615 World Englishes

30 Points 0.2500 EFTS

This course explores some of the historical, political and social issues associated with the development of different World Englishes, discussing key structural differences between varieties of English along the way. Of course, for the language professional attempting to operate in this environment (e.g. teacher, writer, editor, policy maker), there are a number of practical challenges: e.g. what type of English should we teach (and endorse)? How do learners' attitudes towards their target variety affect their eventual proficiency? How do we codify new and emerging varieties? These and many more real-world issues associated with policy, planning and pedagogy are tackled in this course.

P: Subject to approval of the Head of Department.

LING615-21S1 (C) Semester 1

LING615-21S1 (D) Semester 1

Management

LING 650 MA Dissertation

60 Points 0.5000 EFTS

MA Dissertation

P: Subject to approval of the Head of Department.

LING650-21A (C) Starts Anytime

LING650-21S1 (C) Semester 1

LING650-21S2 (C) Semester 2

LING 690 MA Thesis

120 Points 1.0000 EFTS

P: Subject to approval of the Head of Department.

LING690-21A (C) Starts Anytime

Part-time enrolment (0.65 EFTS) is available on approval.

LING 691 Mling Thesis

90 Points 0.7500 EFTS

In this course students design and carry out a research project, with the support of an academic supervisor. The research topic is decided in collaboration between the student and supervisor. Research training is also provided.

P: Subject to approval of the Head of Department.

LING691-21A (C) Starts Anytime

LING 790 Linguistics PhD

120 Points 1.0000 EFTS

P: Subject to approval of the Head of School.

LING790-21A (C) Starts Anytime

Part-time enrolment (0.65 EFTS) is available on approval. *From 1 January 2008, international students who are residing in New Zealand on a NZ Immigration Study Visa pay the Domestic Fee for this course. International fees apply for all other courses.

Management

Department of Management, Marketing and Entrepreneurship

MGMT 100 Fundamentals of Management

15 Points 0.1250 EFTS

An introduction to the fundamental principles of management related to the functional areas of planning, organising, leading and controlling, as well as an introduction to how organisations are linked to the New Zealand and global business environment.

R: MGMT 101

MGMT100-21S1 (C) Semester 1

MGMT100-21S2 (C) Semester 2

MGMT 170 Managerial Decision Making

15 Points 0.1250 EFTS

This course introduces basic managerial decision-making tools and their application to business. The topics include project management, forecasting, inventory management, cost-benefit analysis and decision-making. The course develops problem solving skills, an invaluable tool for modern business.

R: MSCI 101

MGMT170-21S2 (C) Semester 2

MGMT 206 Organisational Behaviour

15 Points 0.1250 EFTS

This course provides an introduction to the study of individual and group behaviour in organisations. The course is taught in two parts. In the first part we examine individual-level topics such as personality differences; perception and learning in organisations; workplace emotions, theories of motivation; and stress management. We then move on to discuss team and organisational-level processes, including decision-making; group dynamics and teamwork; communication; power and conflict management; organisational structure and design; organisational culture; and organisational change.

P: (1) MGMT 100; and (2) A further 45 points

R: MGMT 201, MGMT 216

EQ: MGMT 216

MGMT206-21S1 (C) Semester 1

MGMT 207 Principles of Human Resource Management

15 Points 0.1250 EFTS

This course covers the principles of human resource management (HRM) - its major functional areas and the major theories that are the basis for modern HRM practices.

P: (1) MGMT 100; and (2) A further 45 points

MGMT207-21S1 (C) Semester 1

MGMT 221 International Business

15 Points 0.1250 EFTS

This course introduces the major topics in International Business, including comparative environmental frameworks, government and economic influences, import/export, and organisation of international business. The course emphasises the pervasive repercussions of global issues on contemporary business management and the role of the business owner or executive manager.

P: (1) MGMT 100; and (2) A further 45 points

R: MGMT 220

MGMT221-21S1 (C) Semester 1

MGMT 223 Innovation Management

15 Points 0.1250 EFTS

This course introduces the theories and practices of innovation management. The course examines areas including the role of innovation for growth and wealth creation, effective innovation processes and the associated management issues, and the characteristics of innovative organisations.

P: (1) MGMT 100; and (2) A further 45 points

MGMT223-21S2 (C) Semester 2

MGMT 230 Business, Society and the Environment

15 Points 0.1250 EFTS

This course is a general introduction to the changing responsibilities of business to society and the environment. This course is designed to 1) help you to understand current perspectives on the impact of business on climate change globalisation, and consumerism, and, 2) to help you analyse and develop ways in which business organisations respond ethically to the needs of society and the environment. Each of the topics is addressed at a global, national and organisational level.

P: 60 points

R: MKTG 230

EQ: MKTG 230

MGMT230-21S1 (C) Semester 1

MGMT230-21S2 (C) Semester 2

MGMT 270 Introduction to Operations and Supply Chain Management

15 Points 0.1250 EFTS

An introductory course in OM which provides an overview of topics fundamental to Supply Chain Management: operations strategy, strategic capacity planning, logistics, facility location, data management and forecasting. Ideas from these topics are then integrated via the playing of The Supply Chain Game.

P: (1) MGMT 100 or MGMT 170; and (2) STAT 101

R: MSCI 270, MSCI 220

EQ: MSCI 270

MGMT270-21S1 (C) Semester 1

MGMT 271 Operations Management Processes

15 Points 0.1250 EFTS

An introduction to Supply Chain Management and Operations Management providing the necessary groundwork for more advanced study in this field. There is an emphasis on practical application of the methods taught throughout the course. It considers in detail processes involved in supply chain management. The internal organisation of processes within a manufacturer or service provider is explored. The importance of inventory and the processes to control it, such as Materials Requirements Planning and Lean Production, will be discussed. The course also considers the issue of quality management and how it can be controlled.

P: (1) MGMT 100 or MGMT 170; and (2) STAT 101

R: MSCI 221, MSCI 271

RP: MGMT 270 or MSCI 270

EQ: MSCI 271

MGMT271-21S2 (C) Semester 2

MGMT 281 Business Research Methods

15 Points 0.1250 EFTS

This course introduces students to the philosophy of research in the business/management field, including both qualitative and quantitative methods. It covers the research process and introduces students to the statistical package SPSS. This course is highly recommended for students contemplating postgraduate study in management.

P: (1) 15 points STAT; and (2) A further 45 points

R: MKTG 280, MSCI 280, MGMT 280, MSCI 281

EQ: MSCI 281

MGMT281-21S2 (C) Semester 2

MGMT 301 Leading Change and Innovation

15 Points 0.1250 EFTS

This course gives a systematic overview of the theories, frameworks and tools for leading innovation and change in organisations.

P: MGMT 206 and MGMT 207

R: MGMT 315

MGMT301-21S1 (C) Semester 1

MGMT 303 Leading and Managing People: Essential Employment Frameworks

15 Points

0.1250 EFTS

This course addresses the essential frameworks needed for managing people. It examines the psychological and legal influences that shape employing and leading staff. It covers the specific obligations and responsibilities affecting processes such as recruiting, performance management, dispute resolution, termination and organisational change - as well as exploring the dynamics for managing relationships between managers and employees.

P: Any 45 points from LAWS 101, LAWS 110 or MGMT 200-level courses or above.

MGMT303-21S2 (C)

Semester 2

MGMT 308 Advanced Human Resource Management

15 Points

0.1250 EFTS

This course focuses on the application of human resource management strategies and practices in organisational settings. Attention is also given to the role of human resource planning and strategic approaches to human resource management

P: MGMT 206 and MGMT 207

R: MGMT 307

MGMT308-21S2 (C)

Semester 2

MGMT 324 International Entrepreneurship

15 Points

0.1250 EFTS

International Entrepreneurship is a course designed for those interested in the practices of 'the entrepreneur', and who wish to build on their existing understanding of international business. The main focus of this course is the entrepreneur as an international business operative. The course discusses issues such as: the nature of entrepreneurship, the changing global environment, expansion through franchising, culture and the international environment, and the dark side of entrepreneurship. International case studies, local case studies and recent research findings are used extensively, and students will be encouraged to analyse these through the application of the theoretical material presented during lectures.

P: 45 points at 200-level or above in MGMT or MKTG

MGMT324-21S2 (C)

Semester 2

MGMT 330 Communication Management

15 Points

0.1250 EFTS

This course examines how we think and talk about workplace communication and how this shapes how communication is managed.

P: MGMT 206 or COMS 201 or SOCI 219 or MKTG 201

MGMT330-21S2 (C)

Semester 2

MGMT 331 Learning and Development in Organisations

15 Points

0.1250 EFTS

This course is intended to provide students with an understanding of Human Resource Development (HRD) as a field of practice, its history, and the major theories and paradigms that underpin the field.

P: MGMT 206 and MGMT 207

MGMT331-21S1 (C)

Semester 1

MGMT 332 International Management

15 Points

0.1250 EFTS

This course deals with management of businesses operating internationally. It will mainly cover issues relating to culture, communication, and human resources management in a global context, along with strategy and execution.

P: MGMT 221

MGMT332-21S2 (C)

Semester 2

MGMT 333 Managing Corporate Responsibility

15 Points

0.1250 EFTS

In pursuing the ethical basis for business policy and practice, we will look at changing notions of corporate performance. Participants will address such issues as: What is success in business? What good does business do and how does it do it? What are major causes of the breakdown of business ethics? We will also study the practice of business ethics, with the aim to expand capacity for moral inquiry, dialogue, and decision making in ways that will be useful in your professional and civic lives.

P: (1) MGMT 230; and (2) Any 30 points at 200-level or above

RP: Other essay-based courses

MGMT333-21S1 (C)

Semester 1

MGMT 335 Business and Sustainability

15 Points

0.1250 EFTS

This course strives to deliver an overview of sustainability theory and practice in respect to conducting business effectively. It aims to enable students to make sound decisions in their future careers when leading organisations toward sustainable practices. In the context of business and sustainability, the course will provide an introduction to the science and management issues companies face, including measurement, reporting, feasibility and viability of new technologies, and others. The course will consist of combinations of lectures, interactive classes, and case discussions. Based on the above, successful students will have an increased

understanding of approaches businesses can take to respond effectively to environmental sustainability issues.

P: (1) MGMT 230 or MKTG 230; and (2) Any 45 points at 200-level or above in Commerce

MGMT335-21S1 (C)

Semester 1

MGMT 342 Entrepreneurship and New Ventures

15 Points

0.1250 EFTS

The main focus of this course is the independent entrepreneur as business founder. The course covers the nature of new business ventures, why many fail, family firms, and how new small businesses are financed. Case studies are used extensively and students must also produce their own business proposal and business plan. This course is highly recommended for those students interested in competing in the Entre S85K Challenge.

P: (1) ACCT 102; and (2) A further 45 points at 200-level or above

R: MGMT 321

MGMT342-21S2 (C)

Semester 2

MGMT 343 Social Entrepreneurship

15 Points

0.1250 EFTS

This course is an introduction to Social Entrepreneurship and how it can help communities. It will explore both the theory and practical applications of social entrepreneurship.

P: Any 90 points at 200-level or above

R: MGMT 321

MGMT343-21S2 (C)

Semester 2

MGMT 344 Strategic Management

15 Points

0.1250 EFTS

The course introduces theory and techniques firms use to sustain long-term performance by aligning their activities with the strategic environment. It encourages integration of business disciplines to develop coherent solutions to firms' strategic challenges.

P: (1) ACCT 102; and (2) A further 45 points at 200-level or above

R: MGMT 320

MGMT344-21S1 (C)

Semester 1

MGMT 345 Strategy Processes and Practices

15 Points

0.1250 EFTS

The course aims to enhance strategy knowledge and skills by encouraging the critical appreciation and application of contemporary strategy theory and techniques based around strategy processes and practices.

P: (1) ACCT 102; and (2) A further 45 points at 200-level or above

R: MGMT 320

RP: MGMT 344

MGMT345-21S1 (C)

Semester 1

MGMT 370 Strategic Operations and Supply Chain Management

15 Points

0.1250 EFTS

Practical approaches to managing operations: strategy, capacity, IT, networks and supply chains, operations improvement. A mainstream course for Operations Management majors.

P: (1) MGMT 270 or MSCI 270; and (2) A further 45 points at 200-level or above

R: MSCI 320, MSCI 370

EQ: MSCI 370

MGMT370-21S1 (C)

Semester 1

MGMT 371 Purchasing and Supply Chain Management

15 Points

0.1250 EFTS

The course introduces the concept and practices of supply chain management. In particular the course covers in-depth the topics of procurement, supply chain collaboration, information exchange and the use of information technology in supply chain, sustainability and risk issues, and outsourcing. The course then discusses logistics management and its implications in business.

P: (1) MGMT 270 or MSCI 270; and (2) A further 45 points at 200-level or above

R: MSCI 321, MSCI 371

EQ: MSCI 371

MGMT371-21S2 (C)

Semester 2

MGMT 372 Project Management

15 Points

0.1250 EFTS

This course is an interdisciplinary course that gives a comprehensive overview of project management concepts, models and techniques. It also provides hands on tutorials on the project management software, MS Project.

P: Any 45 points at 200-level or above

R: MSCI 322, MSCI 324, MSCI 372, INFO 313, ACIS 313

EQ: MSCI 372

MGMT372-21S2 (C)

Semester 2

MGMT 390 Management Intern Consulting Project

15 Points 0.1250 EFTS

An Intern Consulting Project involves a student working in a professional capacity to address specific business issue for a host-organisation. The project applies the technical content of a management-related discipline to a real-world business question. The student manages the project, and experiences working in a business environment. As these are management placements, priority is given to students taking a major in either Human Resource Management, International Business, Management, Operations and Supply Chain Management, or Strategy and Entrepreneurship.

P: (1) 60 points at 200-level or above in MGMT; and (2) Subject to Head of Department Approval
R: ARTS 395, ECON 390, FINC 390, MKTG 390, ACCT 364, INFO 390, PACE 395

MGMT390-21A (C) Starts Anytime**MGMT390-21S2 (C) Semester 2****Tāura | Postgraduate**

Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.

MGMT 611 Contemporary Issues in Human Resource Management (HRM)

15 Points 0.1250 EFTS

This course examines contemporary issues in human resource management (HRM). We look at applying HRM-related theory, processes, and interventions, as ways in which HRM can exert a positive influence on how organisations function. We use readings, case studies, and engagement with practitioners to provide a highly interactive learning experience.

P: Subject to approval of the Head of Department

EQ: MGMT 411

MGMT611-21S2 (C) Semester 2**MGMT 616 Leadership**

15 Points 0.1250 EFTS

The course addresses the topic of leadership in relation to the responsibility of the leader towards various stakeholders (e.g. employees, shareholders, community, suppliers, and environment) in both national and international context. In the course we evaluate advanced leadership theory and build practical leadership capabilities.

P: Subject to approval by the Head of Department

R: MGMT 416

EQ: MGMT 416

MGMT616-21S1 (C) Semester 1**MGMT 620 Research Methods**

30 Points 0.2500 EFTS

This course focuses on the conceptualisation of research issues in the field of management, the various management research paradigms in use, and the methodological approaches employed in management research. It discusses the nature and use of quantitative and qualitative methods in academic management research. This includes the development of research questions within a theoretical system informed by management and organization theories, and with a view to the appropriate methods of data collection and analysis, as well as the reporting and communication of research results.

P: Subject to approval of the Head of Department

R: MKTG 620

MGMT620-21S1 (C) Semester 1**MGMT 641 Entrepreneurship**

15 Points 0.1250 EFTS

The course introduces students to the content and methods of current research in the Entrepreneurship field.

P: Subject to approval of the Head of Department

EQ: MGMT 441

MGMT641-21S2 (C) Semester 2**MGMT 643 Advanced Strategic Management**

15 Points 0.1250 EFTS

The course prepares students to undertake strategy activity as reflective practitioners and provides the conceptual background needed for research in the strategy field.

P: Subject to approval of the Head of Department

EQ: MGMT 443

MGMT643-21S1 (C) Semester 1**MGMT 680 Management Dissertation**

30 Points 0.2500 EFTS

A course where students complete a written dissertation based upon their research proposal developed in MGMT 620.

P: MGMT 620

EQ: MGMT 480

MGMT680-21S2 (C) Semester 2**MGMT 694 MCom Thesis**

90 Points 0.7500 EFTS

P: Subject to approval of the Head of Department

MGMT694-21A (C) Starts Anytime**MGMT 695 MCom Thesis**

120 Points 1.0000 EFTS

P: Subject to approval of the Head of Department

MGMT695-21A (C) Starts Anytime*Part-time enrolment (0.65 EFTS) is available on approval.***MGMT 790 Management PhD**

120 Points 1.0000 EFTS

P: Subject to approval of the Head of Department

MGMT790-21A (C) Starts Anytime

*Part-time enrolment (0.65 EFTS) is available on approval. *From 1 January 2008, international students who are residing in New Zealand on a NZ Immigration Study Visa pay the Domestic Fee for this course. International fees apply for all other courses.*

Māori and Indigenous Studies*Aotahi: School of Māori and Indigenous Studies***MAOR 107 Aotearoa: Introduction to Traditional Māori Society**

15 Points 0.1250 EFTS

A comprehensive introduction to: the settlement of the Pacific, Polynesian navigation, star paths, renaissance of voyaging, Māori astronomy, new year stars. Creation myths, Skyfather, Earthmother, gods, origins of life and death. Demigods - Maui, Tawhaki, Whaitiri. Oral traditions, first arrivals, canoe ancestors, explorers, romance, sexual imagery, war. Spiritual beliefs, mana, tapu, makutu black magic witchcraft. Māori geography of New Zealand, greenstone trails, forest lore, pa and settlements, meeting houses, sacred rituals and protocols. Social structure, tribal organisation, leadership, marriage, sex, death. Fortifications, warfare, weapons, canoes, cannibalism. Wood, bone, greenstone carving, tattoo and moko. Performing arts, haka, contemporary themes. Ngāi Tahu traditions.

R: PACS 102

EQ: PACS 102

MAOR107-21S1 (D) Semester 1**MAOR107-21S1 (C) Semester 1****MAOR 108 Aotearoa: Introduction to New Zealand Treaty Society**

15 Points 0.1250 EFTS

Beginning with the Treaty of Waitangi, this course looks at significant events and issues in the shaping of contemporary New Zealand society. The course will explore issues ranging from early Pakeha settlement, the Treaty of Waitangi, colonisation, the NZ wars through to Māori activism, Treaty settlements and claims to self-determination.

R: CULT 114, MAOR 113 (prior to 2006)

EQ: CULT 114

MAOR108-20SU2 (D) Summer (Nov 20)**MAOR108-21S2 (C) Semester 2****MAOR108-21S2 (D) Semester 2****MAOR 165 He Timatanga: Engaging with Māori**

15 Points 0.1250 EFTS

This course provides a comprehensive introductory range of skills and understandings to people who may work, research or otherwise engage with Māori communities. Topics include: basic Māori language including pronunciation, greetings, introducing oneself and asking questions; formal and informal marae protocols and customs; traditional and contemporary values and beliefs, social rankings, structures and organizations; the Treaty of Waitangi; the practical application of the Principles of the Treaty.

MAOR165-21SU1 (C) Summer (Jan 21)**MAOR165-21SU1 (D) Summer (Jan 21)****MAOR165-21S1 (C) Semester 1****MAOR 172 Science, Māori and Indigenous Knowledge**

15 Points 0.1250 EFTS

This is an integrated multi-disciplinary course between Aotahi: School of Māori and Indigenous Studies and the College of Science. This course provides a basic understanding of Māori and indigenous peoples' knowledge in such fields as astronomy, physics, conservation biology, aquaculture, resource management and health sciences. The course provides unique perspectives in indigenous knowledge, western science and their overlap. The course will provide an essential background in cultural awareness and its relationship with today's New Zealand scientific community.

R: SCIM 101

EQ: SCIM 101

MAOR172-21S2 (C) Semester 2

MAOR 212 Māori and Indigenous Development

15 Points 0.1250 EFTS

This course will examine Māori and Indigenous development. Students will explore both historical and contemporary developments and the factors which have affected Māori and Indigenous engagement with globalisation. For example the course will look at areas such as economic development, education and health, amongst others.

P: Any 15 points at 100 level from HIST, MAOR, SOWK, or TREO, or any 60 points at 100 level from the Schedule V of the BA.

R: HIST 262, HIST 379

EQ: HIST 262

MAOR212-21S1 (C) Semester 1**MAOR 214 Te Ao Mārama: Māori Thought**

15 Points 0.1250 EFTS

The paper explores key aspects of Māori thought, philosophies and ideas through Māori history and culture. Topics include: oral traditions and iwi traditions, tikanga, customs and social life, whakaaro rapunga, philosophies and Māori thought leaders, gender and sexuality, identity and Māori art and writing, conservation, natural lore of land, ocean, taniwha, kaitiakitanga and resource management.

P: Any 15 points at 100 level from HIST, MAOR, or TREO, or any 60 points at 100 level from the Schedule V of the BA.

R: HIST 259

EQ: HIST 259

MAOR214-21SU1 (C) Summer (Jan 21)**MAOR214-21SU1 (D) Summer (Jan 21)****MAOR 219 Te Tiriti: The Treaty of Waitangi**

15 Points 0.1250 EFTS

This course uses the Treaty of Waitangi to frame examinations of contemporary New Zealand society. We ask questions designed to highlight and emphasise the relevance of the Treaty of Waitangi to everyday New Zealanders. In addition, the course looks at the importance of this document in the maintenance of Crown and Māori relations. Topics covered range from the signing of the Treaty, and historical developments, to the protest movements and activism of the continuing Māori renaissance period, race relations and one law-for-all.

P: Any 15 points at 100 level from CULT, HIST, HSRV, MAOR, POLS, SOCI, SOWK, or TREO, or any 60 points at 100 level from the Schedule V of the BA.

R: POLS 218, POLS 258, HIST 268, SOCI 209, HSRV 207, CULT 219

EQ: POLS 218, POLS 258, HIST 268, SOCI 209, HSRV 207, CULT 219

MAOR219-21S2 (C) Semester 2**MAOR 230 Ethnicity, Racism and History**

15 Points 0.1250 EFTS

This course provides a critical introduction to the historical and anthropological study of ethnicity, racism, genocide and migration.

P: Any 15 points at 100 level from ANTH, HIST, MAOR, SOCI, or TREO, or any 60 points at 100 level from the Schedule V of the BA.

R: ANTH 223, HIST 283, PACS 204, SOCI 223, SOCI 323

EQ: ANTH 223, HIST 283, PACS 204, SOCI 223

MAOR230-21S2 (C) Semester 2**MAOR 268 Kiriata: Māori film and Media**

15 Points 0.1250 EFTS

This course examines the intersection of Māori identity in film, media and other creative works. It considers the political, historical, social, cultural and ideological influences that have shaped dominant mainstream constructions and counter-hegemonic representations of Māori and indigenous peoples in film, media and creative works. It also highlights the roles of artist, director and industry to produce Māori stories and aesthetics. A number of films will be screened throughout the course.

P: Any 15 points at 100 level from CINE, MAOR, or TREO, or any 60 points at 100 level from the Schedule V of the BA.

R: CINE 213

EQ: CINE 213

MAOR268-21S2 (C) Semester 2**MAOR 282 Kapa Haka - Introducing Māori Performing Arts**

15 Points 0.1250 EFTS

Designed for Māori and non-Māori, performance competent and new learners, language and non-language students this course takes the class on a journey of exploration to a high level of performance. Course content includes study of the mythological and traditional origins and customs of performing arts from moteatea (traditional song), poi (ball dance), waiata a-ringā (action song), haka and the art of warfare and mau rakau (weaponry - ti rakau, titi torea, hapai rakau, taiaha, patu). The course also covers the role of male and female leaders, biographies of important composers and the renaissance of kapa haka and its place in Māori culture and society. Students learn a full performance bracket which includes a distinctive Ngāi Tahu component as well as a selection of historical and sacred classic tribal anthems.

P: Any 15 points at 100 level from MAOR or TREO, or any 60 points at 100 level from the Schedule V of the BA.

R: TREO 282, MAOR 265, MAOR 382, TREO 382, MUSA 252

EQ: TREO 282, MUSA 252

MAOR282-21S2 (C) Semester 2**MAOR 285 Oral Traditions and Modern Histories of Ngāi Tahu**

15 Points 0.1250 EFTS

The story of Ngāi Tahu is a fascinating example of a small impoverished community of tribal members who by the 1970s had been reduced to a membership of less than 400. Within two decades this tribe had emerged as one of the largest corporations in the South Island with a tribal membership of over 40,000. It is the largest land-owner in the South Island with significant interests in fisheries and tourism. Explaining how and why this happened will be one of the core themes of this course. The first part of this course will look at the oral traditions and myths of Ngāi Tahu with a particular emphasis on narrative templates and how these templates are reproduced in the oral traditions that outline the tribe's migration from Wellington to the South Island. The second part of the course will look at Ngāi Tahu's movement from its pre-contact era to initial contact with early explorers, the settler government and the subsequent land transactions that ran from 1844 to 1864. The course will then finish with an overview of how Ngāi Tahu and the Crown negotiated on the largest Treaty settlement packages in the nation's history.

P: Any 15 points at 100 level from HIST, MAOR, or TREO, or any 60 points at 100 level from the Schedule V of the BA.

R: HIST 292

EQ: HIST 292

MAOR285-21S1 (C) Semester 1**MAOR 301 Ngāti Āpōpō: Māori Futures**

30 Points 0.2500 EFTS

This course explores the local, national and global trends that will materially impact on the future trajectory of Māori self determination and futures making. Students will investigate how Māori navigate such shifts and trends to advance self-determination as change agents.

P: Any 30 points at 200 level from CULT, MAOR, POLS, or TREO, or any 60 points at 200 level from the Schedule V of the BA.

R: POLS 331, POLS 358, CULT 319

EQ: POLS 331, POLS 358, CULT 319

MAOR301-21S2 (C) Semester 2**MAOR 317 Takahi: Colonisation**

30 Points 0.2500 EFTS

Colonisation has had a significant effect on the shaping of contemporary New Zealand society. This course will cover key events in the colonisation throughout New Zealand's brief colonial history. This course utilises different theories of colonisation to critically examine the continued subjugation of Indigenous Peoples in Aotearoa and around the world. Special attention will also be paid to breaking down the power relationships that have emerged between coloniser and colonised.

P: Any 30 points at 200 level from CULT, HIST, MAOR, or TREO, or any 60 points at 200 level from the Schedule V of the BA.

R: RELS 322, HIST 366, CULT 302

EQ: CULT 302, HIST 366, RELS 322

MAOR317-21S2 (C) Semester 2**MAOR 323 Research Essay**

30 Points 0.2500 EFTS

Independent research essay for students with a demonstrated ability to progress to postgraduate research study and thesis writing. Enrolling students must have a B+ grade average. They are expected to see a lecturer in the School to develop a project with a supervisor and proposal.

P: Any 30 points at 200 level from MAOR or TREO, or any 60 points at 200 level from the Schedule V of the BA, and permission of the Head of School.

R: MAOR 321

MAOR323-21S1 (C) Semester 1**MAOR323-21S2 (C) Semester 2****MAOR 373 Whakaaro Wairua: Māori Spiritual Beliefs and Philosophies**

30 Points 0.2500 EFTS

This course explores Māori philosophies, thought and, what has been described in the literature as, "spiritual beliefs" across time. The course will look at Māori concepts such as tapu, mana, mauri, ihi, wehi, wana and others, how these concepts have changed and the factors that have given rise to new understandings of these. We will also explore the ongoing maintenance of these concepts in the face of Christianity and modernity.

P: Any 30 points at 200 level from MAOR or TREO, or any 60 points at 200 level from the Schedule V of the BA.

R: MAOR 417

MAOR373-21S1 (C) Semester 1**PACE 395 Internship**

30 Points 0.2500 EFTS

What can you do with your major? With your degree? The purpose of the internship course is to explore both the ideological and practical assumptions guiding this question. The course is designed to be a critical, theoretical and "real-world" examination of the practices and ideologies inherent in both community and business organisations. You will apply the analytical skills acquired through your major, and through class seminars and readings, to a project designed by a local company or community group. Please check out the website for further information and specific project descriptions: www.arts.canterbury.ac.nz/internships

P: 150 points, special application and interview, and permission of the Internship Director.

R: ARTS 395

EQ: ARTS 395

PACE395-20SU2 (C)	Summer (Nov 20)
PACE395-21A (C)	Starts Anytime
PACE395-21S1 (C)	Semester 1
PACE395-21S2 (C)	Semester 2

Limited entry. See limitation of entry regulations. A student will be selected for a specific project. Only students accepted for projects will be allowed into the course. Please go to <http://www.arts.canterbury.ac.nz/internships> for more information.

Tāura | Postgraduate

Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.

MAOR 401 Te Matakahi: Indigenous Critical Theory

30 Points 0.2500 EFTS

Theory for Māori and indigenous scholars. The study of counter-hegemonic theory in so-called post-colonial states. In this course drawing from a range of theorists, from Frantz Fanon, Edward Said, Lewis Gordon, Homi Bhabha to Gayatri Spivak and others, we explore the coloniser-colonised binary. Can we maintain resistance and create new spaces and practices 'outside' of this relationship?

P: Subject to approval of the Head of School.

R: CULT 420

EQ: CULT 420

MAOR401-21S1 (C) Semester 1

MAOR 430 Māori Leadership

30 Points 0.2500 EFTS

This course is part of the Master of Māori and Indigenous Leadership degree. It will enable students to gain practical leadership skills suited to management and governance roles within the Māori sector, as well as developing leadership attributes to effectively lead transformation initiatives that advance Māori aspirations. Students will explore Indigenous leadership models and philosophies, as well as critically engage with the organisational needs, structure and context of Iwi and Māori organisations.

P: Subject to approval of the Head of School.

MAOR430-21X1 (D)

MAOR430-21X2 (D)

MAOR430-21X (D) 22 Feb 2021 - 12 Sep 2021

MAOR 431 Comparative Indigenous Models and Theories of Development

30 Points 0.2500 EFTS

This course is part of the Master of Māori and Indigenous Leadership degree. It will expose students to Indigenous approaches to development, innovation and self determination across New Zealand, Australia and the Americas to enable students to gain a deep and broad suite of precedents that can be drawn upon for designing creative and principled solutions within their communities and/or organisations. The course will also explore contrasting theoretical and philosophical approaches to Indigenous development to provide students with a robust framework for critically engaging with and evaluating the comparative value, impact and efficacy of different approaches to solution building within the Māori sector.

P: Subject to approval of the Head of School.

MAOR431-21X1 (D)

MAOR431-21X2 (D)

MAOR431-21X (D) 22 Feb 2021 - 12 Sep 2021

MAOR431-21S2 (C) Semester 2

MAOR 480 Research Essay

30 Points 0.2500 EFTS

This course is specifically designed for students with a demonstrated ability to conduct advanced research and/or progress to thesis writing. Students are expected to make a short presentation at the School's Annual Matariki Research Seminar Series.

P: Subject to approval of the Head of School.

MAOR480-21S1 (C) Semester 1

MAOR480-21S2 (C) Semester 2

MAOR 590 Rangahau - Major Research Dissertation

90 Points 0.7500 EFTS

This course is designed for students with a demonstrated ability to conduct postgraduate research and/or progress to thesis writing in Māori and Indigenous Studies. Students are invited to discuss a topic of their choice with staff. Students are expected to make a short presentation at the School's Annual Matariki Research Seminar Series.

P: Subject to approval of the Head of School.

RP: Dialog with an appropriate staff member in Aotahi. 2-3 page proposal.

MAOR590-21W (C) Whole Year (S1 and S2)

MAOR 591 Rangahau - Minor Research Dissertation

60 Points 0.5000 EFTS

This course is designed for students with a demonstrated ability to conduct postgraduate research and/or progress to thesis writing in Māori and Indigenous Studies. Students are invited

to discuss a topic of their choice with staff. Students are expected to make a short presentation at the School's Annual Matariki Research Seminar Series.

P: Subject to approval of the Head of School.

RP: Dialog with an appropriate staff member in Aotahi. 2-3 page proposal.

MAOR591-21W (C) Whole Year (S1 and S2)

MAOR 592 Rangahau - Research Paper

30 Points 0.2500 EFTS

This course is designed for students with a demonstrated ability to conduct postgraduate research and/or progress to thesis writing in Māori and Indigenous Studies. Students are invited to discuss a topic of their choice with staff. Students are expected to make a short presentation at the School's Annual Matariki Research Seminar Series.

P: Subject to approval of the Head of School.

RP: Dialog with an appropriate staff member in Aotahi. 2-3 page proposal.

MAOR592-21S1 (C) Semester 1

MAOR 593 Rangahau - Research Paper

30 Points 0.2500 EFTS

A piece of original research on an agreed topic. Students must obtain a supervisor from the School and submit a proposal for approval by the Head of School by the beginning of the second semester. This Project should be submitted by the end of semester two (7,500 to 10,000 words).

P: Subject to approval of the Head of School.

RP: Dialog with an appropriate staff member in Aotahi. 2-3 page proposal.

MAOR593-21S2 (C) Semester 2

MAOR 595 Rangahau - Minor Research Dissertation Part 2

30 Points 0.2500 EFTS

This course is designed for students with a demonstrated ability to conduct postgraduate research and/or progress to thesis writing in Māori and Indigenous Studies. Students are invited to discuss a topic of their choice with staff. Students are expected to make a short presentation at the School's Annual Matariki Research Seminar Series.

P: Subject to approval of the Head of School.

MAOR595-21A (C) Starts Anytime

MAOR 650 MA Dissertation

60 Points 0.5000 EFTS

MA Dissertation

P: Subject to approval of the Head of Department.

MAOR650-21A (C) Starts Anytime

MAOR650-21S1 (C) Semester 1

MAOR650-21S2 (C) Semester 2

MAOR 680 Research Essay

30 Points 0.2500 EFTS

A research essay on an agreed topic.

P: Subject to approval of the Head of School.

MAOR680-21A (C) Starts Anytime

MAOR680-21A (D) Starts Anytime

MAOR 681 Research Project

30 Points 0.2500 EFTS

A research project with a focus on the global context of indigenous issues.

P: Subject to approval of the Head of School.

MAOR681-21A (C) Starts Anytime

MAOR681-21A (D) Starts Anytime

MAOR 690 MA Thesis

120 Points 1.0000 EFTS

P: Subject to approval of the Head of School.

MAOR690-21A (C) Starts Anytime

Part-time enrolment (0.65 EFTS) is available on approval.

MAOR 790 Māori PhD

120 Points 1.0000 EFTS

P: Subject to approval of the Head of School

MAOR790-21A (C) Starts Anytime

Part-time enrolment (0.65 EFTS) is available on approval. *From 1 January 2008, international students who are residing in New Zealand on a NZ Immigration Study Visa pay the Domestic Fee for this course. International fees apply for all other courses.

Marketing

Department of Management, Marketing and Entrepreneurship

MKTG 100 Principles of Marketing

15 Points

0.1250 EFTS

This course aims to enable students to understand the fundamental concepts and theories of marketing and how they may be applied to the marketplace in a modern and dynamic environment. By the end of the course, students should appreciate the various concepts and theories of marketing and understand how these may be appropriately applied in achieving marketing objectives in a variety of contexts and environments.

R: MGMT 102

EQ: MGMT 102

MKTG100-21S1 (C)

Semester 1

MKTG100-21S2 (C)

Semester 2

MKTG 201 Marketing Management

15 Points

0.1250 EFTS

Marketing presented as an organisational process of adapting to a changing environment, including aspects of product development, promotion, distribution and pricing.

P: (1) MKTG 100; and (2) A further 45 points

R: MGMT 210

RP: MKTG 202

EQ: MGMT 210

MKTG201-21S2 (C)

Semester 2

MKTG 202 Marketing Research

15 Points

0.1250 EFTS

An introduction to marketing research and its applications, with an emphasis on research as an aid to management decision-making. Students in this course will be provided with a background in research methods, issues related to conducting marketing research, data analysis, and methods of evaluation related to marketing.

P: (1) MKTG 100; and (2) STAT 101; and (3) A further 30 points

R: MGMT 212

EQ: MGMT 212

MKTG202-21S1 (C)

Semester 1

MKTG 204 Consumer Behaviour

15 Points

0.1250 EFTS

The purpose of this course is to focus on why and how consumers make decisions and behave in certain ways. More specifically, it examines what motivates consumers, what captures their attention, and what retains their loyalty.

P: (1) MKTG 100 or COMS 104; and (2) A further 45 points.

R: MGMT 204

EQ: MGMT 204

MKTG204-21S2 (C)

Semester 2

MKTG 205 Services Marketing and Management

15 Points

0.1250 EFTS

This course aims to develop an understanding of services marketing and management. Students will be introduced to services marketing and management concepts, service quality, service logic; consumer behaviour, expectations and perceptions in relation to services; understanding customer requirements, and service development and design; and the role of employees in service delivery. This will be done in relation to several industries within the service sector.

P: (1) MKTG 100; and (2) A further 45 points

R: MGMT 317; MKTG 313

MKTG205-21S2 (C)

Semester 2

MKTG 230 Business, Society and the Environment

15 Points

0.1250 EFTS

This course is a general introduction to the changing responsibilities of business to society and the environment. This course is designed to 1) help you to understand current perspectives on the impact of business on climate change globalisation, and consumerism, and, 2) to help you analyse and develop ways in which business organisations respond ethically to the needs of society and the environment. Each of the topics is addressed at a global, national and organisational level.

P: Any 60 points

R: MGMT 230

EQ: MGMT 230

MKTG230-21S1 (C)

Semester 1

MKTG230-21S2 (C)

Semester 2

MKTG 240 Tourism, Hospitality & Events Management

15 Points

0.1250 EFTS

This course exposes students to the tourism system and critically discusses its components. The course equips students with an understanding of tourism, hospitality and events industry globally and in New Zealand.

P: MKTG 100

MKTG240-21S1 (C)

Semester 1

MKTG 241 Hospitality Marketing and Management

15 Points

0.1250 EFTS

In this course, students will learn about both the strategic and operational side of hospitality businesses, with a focus on marketing aspects. Students will typically learn about food and beverage management and housekeeping management as well as the marketing practices of different sectors in the hospitality industry.

P: MKTG 100

MKTG241-21S2 (C)

Semester 2

MKTG 305 Strategic Marketing

15 Points

0.1250 EFTS

The course takes a managerial perspective and focuses on strategic decisions relating to the analysis, development, implementation and control of marketing strategies needed to gain and sustain an organisation's competitive advantage. Students learn various strategic tools and techniques that assist in evaluating the effectiveness of marketing strategies. New approaches to marketing practice are also covered. Instructional methods include the case studies and a group-based project.

P: (1) MKTG 201; and (2) MKTG 202; and (3) MKTG 204

R: MGMT 316; MKTG 301

EQ: MKTG 301

MKTG305-21S2 (C)

Semester 2

MKTG 307 Advertising and Promotion Management

15 Points

0.1250 EFTS

This course is an introduction to the fundamentals of advertising and promotion. The course will cover the societal and managerial uses of advertising as a means of symbol formation and communication. Lectures, class exercises, discussions, and videos will be used to explore topics of relevance. Students will be involved in developing and presenting a comprehensive, promotional campaign for a product or service.

P: (1) MKTG 201; and (2) MKTG 202; and (3) MKTG 204

R: MGMT 318; MKTG 303

MKTG307-21S1 (C)

Semester 1

MKTG 309 International Marketing

15 Points

0.1250 EFTS

This course introduces students to core topics in international marketing. The course is fundamental to almost all career paths for students in the marketing field with firms that have an international dimension to their marketing strategies. The course is also complementary to the other offerings in International Business.

P: At least 30 points of 200-level courses in MKTG

R: MGMT 316

MKTG309-21S1 (C)

Semester 1

MKTG 310 Customer Experience

15 Points

0.1250 EFTS

Historically, business approaches have been almost exclusively focused on the marketing mix itself, especially for product-related exchanges. As a result, the customer at the centre of the framework became an almost forgotten concern for many marketers. The course "Customer Experience" focuses on the design and marketing of emotionally stimulating, value-creating customer experiences. Students will strategically evaluate and critique current traditional marketing and management strategies in terms of their customer focus. The class format involves a mix of class lectures and in-class workshops, case analyses and presentations, best practice discussions, and individual assignments. Students will enhance their learning through group work and in-class presentations as well as individual research projects. The sessions are interactive, stimulating student thinking and critical review.

P: (1) MKTG 201; and (2) MKTG 202; and (3) MKTG 204

R: MGMT 310

EQ: MGMT 310

MKTG310-21S2 (C)

Semester 2

MKTG 314 Tourism Marketing and Management

15 Points

0.1250 EFTS

An integrated course that examines contemporary strategies and issues in tourism marketing and management for destinations, firms, national and regional tourism organisations.

P: Any 60 points at 200-level or above

R: MGMT 340

EQ: MGMT 340

MKTG314-21S1 (C)

Semester 1

Marketing

MKTG 315 Marketing for Behavioural Change

15 Points 0.1250 EFTS

Marketing for Behavioural Change focuses on the planning and implementation of programmes designed to bring about social change, using concepts from commercial marketing. It is geared toward furthering a cause, raising money, raising awareness and public education, or bringing about social change. Students will be exposed to a diverse range of not-for-profit and for-profit organisations that embody socially responsible and social-change driven missions.

P: Any 60 points at 200-level or above

R: MGMT 341

EQ: MGMT 341

MKTG315-21S2 (C) Semester 2**MKTG 316 Digital Marketing**

15 Points 0.1250 EFTS

This course offers an overview of online, digital, internet and social media marketing techniques and practices. The course prepares students for using online marketing platforms and decision making in the modern workplace.

P: (1) MKTG 100, (2) A further 45 points at 200-level or above

MKTG316-21S2 (C) Semester 2**MKTG 317 Sustainable Tourism Enterprises and Destinations**

15 Points 0.1250 EFTS

This course offers an overview of macro marketing perspectives of sustainable tourism enterprises and destinations. The course prepares students for an in-depth understanding of how tourism marketing impacts and is impacted by the broader tourism system. Organisational and individual behaviours are discussed as well as mechanisms to enable sustainable tourism enterprises and destinations.

P: (1) MKTG 100; and (2) A further 45 points at 200-level or above.

MKTG317-21S2 (C) Semester 2**MKTG 340 Event Management and Marketing**

15 Points 0.1250 EFTS

This course introduces students to the importance of marketing and managing events in the successful development of tourist destinations. It highlights the various forces (macro and micro level, especially from a stakeholder perspective) that impact on events and provides students with an insight into the events planning, marketing, and management process. This course also addresses the financial and human resources aspects of events, and provides students with generic event marketing and management skills that can be applied to festivals, meetings and conventions, expositions and shows, and to sport competitions.

P: MKTG 240

MKTG340-21S1 (C) Semester 1**MKTG 349 Applied Tourism Management and Marketing Project**

15 Points 0.1250 EFTS

This course emphasises on using research to address tourism, hospitality and event issues related to the development and marketing of New Zealand as a tourism destination. Building on the introductory notions of marketing research in MKTG202 and tourism in MKTG240, this course further develops students' skills in applying research methods to investigate contemporary tourism issues in New Zealand. Through an applied project from the industry, students will complete an investigation of a current and relevant tourism issue. The course includes a series of workshops on tourism research methods and project management skills. Topics covered in this course include problem formulation and research design; research implementation; data collection and analysis and results interpretation; evaluation; and application.

P: MKTG 240, MKTG 202

MKTG349-21S2 (C) Semester 2**MKTG 390 Marketing Internship**

15 Points 0.1250 EFTS

An internship placement is an opportunity to experience a professional work environment. Internships taken for credit are usually unpaid. You are expected to develop a good understanding of a sector, market or organisation. The work you submit will show an application of the tools, ideas or concepts of marketing. You will be required to reflect critically on the requirements of transitioning from an academic to a work environment and the skills valued in a professional workplace. As these are marketing placements, priority is given to marketing majors.

P: (1) MKTG 201 and MKTG 202 (2) Subject to Head of Department Approval

R: ECON 390, FINC 390, ARTS 395, ACCT 324, INFO 390, PACE 395

MKTG390-21S2 (C) Semester 2*Limited entry. See limitation of entry regulations.***Tāura | Postgraduate**

Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.

MKTG 603 Advanced Consumer Behaviour

15 Points 0.1250 EFTS

The purpose of this course is to introduce students to advanced consumer behaviour and

research, and for students to develop the ability to integrate the various theories and research findings presented.

P: Subject to approval of the Head of Department

R: MGMT 423

EQ: MGMT 423

MKTG603-21S1 (C) Semester 1**MKTG 605 Advanced Strategic Marketing**

15 Points 0.1250 EFTS

This course examines marketing strategy as a market-driven process of strategy development that delivers superior customer value and ensures satisfactory organisational performance including sustained competitive advantage. A special focus of the course is the examination and critical analysis of classic and the latest literature in strategic marketing against an environment that is dynamic and hugely challenging.

P: Subject to approval of the Head of Department.

R: MGMT 424

EQ: MGMT 424

MKTG605-21S2 (C) Semester 2**MKTG 609 Advanced Services and Tourism Marketing**

15 Points 0.1250 EFTS

This course covers the principles and theories of advanced services and tourism marketing.

P: Subject to approval of the Head of Department

R: MGMT 421

EQ: MGMT 421

MKTG609-21S1 (C) Semester 1**MKTG 611 Current Topics in Marketing**

15 Points 0.1250 EFTS

An advanced examination of contemporary issues in marketing.

P: Subject to approval of the Head of Department

R: MGMT 452

EQ: MGMT 452

MKTG611-21S2 (C) Semester 2**MKTG 620 Research Methods for Marketing**

30 Points 0.2500 EFTS

This core course provides students with advanced knowledge of qualitative and quantitative theories and research methods relevant to Marketing discipline. These include Conjoint Analysis, Best/Worst Choice Modelling, Netnographic Research, and Tribal Marketing Ethnographic Research. A heavier focus will also be placed on methodologies that predominate much of the marketing research currently being used in both academia and business such as experimental design, depth analysis of qualitative consumer research, and segmentation analysis of large datasets to form consumer groups

P: Subject to approval of the Head of Department.

MKTG620-21S1 (C) Semester 1**MKTG 680 Marketing Dissertation**

30 Points 0.2500 EFTS

A course where students complete a written dissertation based upon their research proposal developed in MKTG620.

P: MKTG 620

MKTG680-21S2 (C) Semester 2**MKTG 694 MCom Thesis**

90 Points 0.7500 EFTS

P: Subject to approval of the Head of Department

MKTG694-21A (C) Starts Anytime**MKTG 695 MCom Thesis**

120 Points 1.0000 EFTS

P: Subject to approval of the Head of Department

MKTG695-21A (C) Starts Anytime*Part-time enrolment (0.65 EFTS) is available on approval.***MKTG 790 Marketing PhD**

120 Points 1.0000 EFTS

P: Subject to approval of the Head of Department

MKTG790-21A (C) Starts Anytime

*Part-time enrolment (0.65 EFTS) is available on approval. *From 1 January 2008, international students who are residing in New Zealand on a NZ Immigration Study Visa pay the Domestic Fee for this course. International fees apply for all other courses.*

Mathematical Physics

School of Physical and Chemical Sciences

Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.

MAPH 480 Mathematical Physics Research Project

30 Points 0.2500 EFTS
An independent research project in Physics for 400-level students
P: Subject to approval of the Head of Department
MAPH480-21A (C) Starts Anytime

MAPH 790 Mathematical Physics PhD

120 Points 1.0000 EFTS
P: Subject to approval of the Head of Department.
MAPH790-21A (C) Starts Anytime
Part-time enrolment (0.65 EFTS) is available on approval. *From 1 January 2008, international students who are residing in New Zealand on a NZ Immigration Study Visa pay the Domestic Fee for this course. International fees apply for all other courses.

Mathematics

School of Mathematics and Statistics

MATH 101 Methods of Mathematics

15 Points 0.1250 EFTS
Introduction to calculus, trigonometry and algebra. Emphasis on setting up mathematical models of problems, solving them and interpreting the solutions. Applications to the physical, life and earth sciences as well as to commerce and the humanities.
R: MATH 199
MATH101-21S1 (C) Semester 1
MATH101-21S2 (C) Semester 2

MATH 102 Mathematics 1A

15 Points 0.1250 EFTS
An introductory course in calculus and linear algebra that is designed primarily for students who have done well in Level 3 NCEA Mathematics, covering single variable calculus and basic ideas in linear algebra. The mathematics in this course has applications in many areas of science and commerce.
P: 1. MATH 101, or 2. NCEA 14 Credits at level 3 Mathematics, or 3. Cambridge: D at A level or an A at AS level in Mathematics, or 4. IB: 4 at HL or 5 at SL in Mathematics, or 5. Approval of the Head of School based on alternative prior learning.
R: MATH 108, MATH 199, EMTH 118
MATH102-21S1 (C) Semester 1
MATH102-21S2 (C) Semester 2

MATH 103 Mathematics 1B

15 Points 0.1250 EFTS
A consolidation of concepts from MATH102 and introduction to more advanced ideas in calculus and linear algebra. It is a prerequisite for many courses in mathematics and other subjects at 200-level.
P: MATH 102 or EMTH 118
R: MATH 109, MATH 199, EMTH 119
MATH103-21S2 (C) Semester 2

MATH 110 Foundations of Applied Mathematics and Statistics

15 Points 0.1250 EFTS
Introduction to trigonometry and algebra. Emphasis on solving problems relevant to design, physical, life and earth sciences as well as to commerce and the humanities. An introduction to the ideas, techniques and applications of statistics and probability.
R: EMTH 118, MATH 101, MATH 102, MATH 199, STAT 101
MATH110-21S1 (C) Semester 1
MATH110-21S2 (C) Semester 2

MATH 120 Discrete Mathematics

15 Points 0.1250 EFTS
Discrete mathematics is that part of mathematics not involving limit processes. It includes logic, the integers, finite structures, sets and networks.
P: 1. MATH 101 or MATH 102 or EMTH 118, or 2. NCEA 14 Credits (18 strongly recommended) at level 3 Mathematics, or 3. Cambridge: D at A level or an A at AS level in Mathematics, or 4. IB: 4 at HL or 5 at SL in Mathematics, or 5. approval of the Head of School based on alternative prior learning.
R: MATH 115
MATH120-20SU2 (C) Summer (Nov 20)
MATH120-21S2 (C) Semester 2

MATH 201 Multivariable Calculus

15 Points 0.1250 EFTS
This course deals with techniques in multivariable calculus and vector calculus which have applications in many areas of science, commerce and engineering. It is also preparation for many courses in advanced mathematics.
P: MATH 103 or MATH 199 or EMTH 119
R: MATH 261, MATH 264, EMTH 202, EMTH 204, EMTH 210
MATH201-21S1 (C) Semester 1

MATH 202 Differential Equations

15 Points 0.1250 EFTS
This course deals with analytical, numerical, and geometric techniques for differential equations, including applications.
P: MATH 103 or MATH 199 or EMTH 119
R: MATH 262, MATH 264, EMTH 202, EMTH 204
MATH202-21S2 (C) Semester 2

MATH 203 Linear Algebra

15 Points 0.1250 EFTS
Linear algebra is a key part of the mathematician's toolkit and has applications to many areas in science, commerce and engineering. This course develops the fundamental concepts of linear algebra, including vector spaces, linear transformations, eigenvalues, and orthogonality. Emphasis is placed on understanding both abstract mathematical structures and their concrete applications.
P: MATH 103 or EMTH 119 or MATH 199
R: MATH 252, MATH 254, EMTH 203, EMTH 204, EMTH 211, DATA 203
MATH203-21S1 (C) Semester 1

MATH 220 Discrete Mathematics and Cryptography

15 Points 0.1250 EFTS
Discrete mathematics underpins many areas of modern-day science. This course is an introduction to graph theory and cryptography, two central topics in discrete mathematics.
P: One of MATH 102, MATH 103, MATH 120, MATH 199, EMTH 118 or EMTH 119.
R: MATH 221, MATH 231
MATH220-21S1 (C) Semester 1

MATH 230 Logic, Automata, and Computability

15 Points 0.1250 EFTS
An introduction to various formal logics, the theory of automata, and the theoretical limitations of the computer.
P: 15 points from MATH 102-199, and a further 15 points from 100 level COSC, EMTH, MATH, PHIL or STAT courses, excluding COSC 110 and MATH 101.
R: MATH 208, MATH 308, PHIL 208 (prior to 2014), PHIL 210, PHIL 308 (prior to 2014).
EQ: PHIL 210
MATH230-21S2 (C) Semester 2

MATH 240 Analysis and Groups

15 Points 0.1250 EFTS
The course comprises two very different subjects, analysis and groups, both fundamental to mathematics and requiring mathematically rigorous thinking. It gives a deeper understanding of the real number system and limits, and an introduction to the methods of abstract algebra via the study of symmetries and permutations.
P: MATH 103, MATH 199 or EMTH 119.
R: MATH 222, MATH 243
MATH240-21S2 (C) Semester 2

MATH 270 Mathematical Modelling and Computation 2

15 Points 0.1250 EFTS
Numerical methods and stochastics: solving nonlinear equations; solving systems of linear equations; interpolation; initial value and boundary value problems for ordinary differential equations; Monte Carlo simulation and applications. Programming and problem solving using MATLAB and the application of these ideas.
P: (MATH 170 or EMTH 171 or MATH 280 or COSC 121 or Head of School approval) and (EMTH 119 or MATH 103 or MATH 199)
R: EMTH 271, MATH 271
MATH270-21S2 (C) Semester 2

MATH 302 Partial Differential Equations

15 Points 0.1250 EFTS
An introduction to the methods of solution for partial differential equations and to their applications.
P: (MATH 201 and MATH 202) or EMTH 210
R: MATH 361, EMTH 391, EMTH 413
MATH302-21S1 (C) Semester 1

MATH 303 Applied Matrix Algebra

15 Points 0.1250 EFTS

A continuation of 200-level linear algebra with computational and theoretical aspects and applications.

P: One of MATH 203, EMTH 211, or DATA 203

R: MATH 352, EMTH 412

MATH303-21S2 (C) Semester 2**MATH 320 Discrete Mathematics**

15 Points 0.1250 EFTS

An introduction to various topics including combinatorial optimisation, enumeration, and set systems.

P: 30 points from MATH 201, MATH 202, MATH 203, MATH 220, MATH 240, EMTH 210, EMTH 211.

R: MATH 333, MATH 334

MATH320-21S1 (C) Semester 1**MATH 321 Rings and Fields**

15 Points 0.1250 EFTS

An introduction to fields and rings, including applications to coding theory and the impossibility of constructions such as 'squaring the circle'.

P: One of MATH 203, MATH 220, MATH 240, or EMTH 211, and a further 15 points from MATH 201-294.

R: MATH 439, MATH 311

MATH321-21S1 (C) Semester 1**MATH 324 Cryptography and Coding Theory**

15 Points 0.1250 EFTS

This course deals with the mathematical ideas underlying modern cryptography, including algebra, number theory and probability theory.

P: One of MATH 203, MATH 220 or MATH 240, and a further 15 points from MATH 201-294.

R: MATH 391

MATH324-21S2 (C) Semester 2**MATH 343 Metric, Normed and Hilbert Spaces**

15 Points 0.1250 EFTS

An introduction to those parts of modern analysis essential for many aspects of pure and applied mathematics, physics, economics and finance.

P: 30 points from MATH 201, MATH 202, MATH 203, MATH 240, MATH 270, EMTH 210, EMTH 211 or EMTH 271.

MATH343-21S1 (C) Semester 1**MATH 353 Computational Mathematics and Applications**

15 Points 0.1250 EFTS

This course looks at a variety of methods for solving important computational problems that arise in science, engineering and commerce. In addition to applications, we will look at the methods' basic theoretical properties (stability, accuracy, computational complexity, convergence). During the course, you will learn about the performance of the methods through examples and counterexamples that highlight their pros and cons.

P: 1) Either MATH 201 or EMTH 210; AND 2) One of MATH 202, MATH 203, MATH 240, MATH 270, EMTH 211 or EMTH 271. With the permission of the Head of School a high grade in either MATH 201 or EMTH 210 will suffice.

R: EMTH 414

MATH353-21S1 (C) Semester 1**MATH 363 Dynamical Systems**

15 Points 0.1250 EFTS

An introduction to nonlinear systems, the use of linearisation techniques and bifurcation theory.

P: MATH 201 or EMTH 210 and a further 15 points from (EMTH 211, EMTH 271, MATH 202, MATH 203, MATH 240, MATH 270).

R: EMTH 415

MATH363-21S2 (C) Semester 2**MATH 365 Applications of Complex Variables**

15 Points 0.1250 EFTS

Applications of complex variable theory in the physical and engineering sciences. Contour integration. Conformal mappings.

P: MATH 201 or MATH 240; or, a high level of achievement in EMTH 210 with Head of School approval

R: MATH 342

MATH365-21S2 (C) Semester 2**MATH 380 Mathematics in Perspective**

15 Points 0.1250 EFTS

Topics in the history, philosophy, directions and culture of mathematics including significant results from the past and an outline of some major areas of progress in the 20th century.

P: 30 points in Mathematics or Statistics or Engineering Mathematics at 100 level. 45 points from the BA or BSc Schedule at 200 level in Mathematics, Statistics, Engineering Mathematics, related subjects, or other subjects with good grades, as approved by the Head of School.

R: MATH 301, MATH 433, HAPS 405

MATH380-21S2 (C) Semester 2**MATH 391 Special Topic**

15 Points 0.1250 EFTS

This special topic will allow flexibility to offer new or one-off courses of strategic importance to the Department. Its potential uses include: new staff developing a course in their areas of research specialisation; visiting Erskine fellows offering courses covering exciting new developments.

P: Subject to the approval of the Head of School.

MATH391-21S1 (C) Semester 1**MATH 392 Special Topic**

15 Points 0.1250 EFTS

This special topic will allow flexibility to offer new or one-off courses of strategic importance to the Department. Its potential uses include: new staff developing a course in their areas of research specialisation; visiting Erskine fellows offering courses covering exciting new developments.

P: Subject to the approval of the Head of School.

MATH392-21S2 (C) Semester 2**MATH 393 Independent Course of Study**

15 Points 0.1250 EFTS

P: Subject to approval of the Head of School.

MATH393-21S1 (C) Semester 1**MATH 394 Independent Course of Study**

15 Points 0.1250 EFTS

P: Subject to the approval of the Head of School.

MATH394-21S2 (C) Semester 2**MATH 395 Mathematics Project**

15 Points 0.1250 EFTS

This 150 hour course provides students with an opportunity to develop mathematical research skills to extend and strengthen their understanding of an area of mathematics. Note: This course cannot be included as part of the 300 level requirement for a Mathematics or Statistics major.

P: Subject to approval of the Head of School

R: MATH 305

MATH395-20SU2 (C) Summer (Nov 20)**Tāura | Postgraduate***Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.***MATH 401 Dynamical Systems**

15 Points 0.1250 EFTS

P: Subject to approval of the Head of School.

MATH401-21S2 (C) Semester 2**MATH 411 Topics in Algebra**

15 Points 0.1250 EFTS

P: Subject to approval of the Head of School.

MATH411-21S2 (C) Semester 2**MATH 414 Computational Methods**

15 Points 0.1250 EFTS

P: Subject to the approval of the Head of School.

MATH414-21S1 (C) Semester 1**MATH 415 Numerical Analysis**

15 Points 0.1250 EFTS

P: Subject to approval of the Head of School.

MATH415-21S1 (C) Semester 1

MATH 416 Differential Systems

15 Points 0.1250 EFTS

P: Subject to approval of the Head of School.

MATH416-21S1 (C) Semester 1**MATH 426 Geometry**

15 Points 0.1250 EFTS

The course deals with advanced topics in geometry

P: Subject to approval of the Head of School.

MATH426-21S1 (C) Semester 1**MATH 428 Topology**

15 Points 0.1250 EFTS

P: Subject to approval of the Head of School.

MATH428-21S2 (C) Semester 2**MATH 429 Combinatorics**

15 Points 0.1250 EFTS

P: Subject to approval of the Head of School.

MATH429-21S1 (C) Semester 1**MATH 433 Mathematics in Perspective**

15 Points 0.1250 EFTS

P: Subject to approval of the Head of School.

R: MATH 380, HAPS 405

MATH433-21S2 (C) Semester 2**MATH 440 Graph Theory**

15 Points 0.1250 EFTS

This is a self-contained advanced-level graph theory course, which explores some of the most important results in the field.

P: Subject to approval of the Head of School.

MATH440-21S2 (C) Semester 2**MATH 443 Metric, Normed and Hilbert Spaces**

15 Points 0.1250 EFTS

P: Subject to approval of the Head of School.

MATH443-21S1 (C) Semester 1**MATH 449 Project**

30 Points 0.2500 EFTS

P: Subject to approval of the Head of School.

MATH449-21W (C) Whole Year (S1 and S2)**MATH449-21CY (C) Cross Year****MATH 475 Independent Course of Study**

15 Points 0.1250 EFTS

P: Subject to approval of the Head of School.

MATH475-21S1 (C) Semester 1**MATH475-21S2 (C) Semester 2****MATH 491 Research Project**

15 Points 0.1250 EFTS

This 150 hour course provides students with an opportunity to develop mathematical or statistical research skills to extend and strengthen their understanding of an area of mathematics or statistics. Students will be involved in a research project with a supervisor. The project will be closely aligned with the supervisor's existing research programme.

P: Subject to approval of the Head of School.

MATH491-20SU2 (C) Summer (Nov 20)**MATH491-21A (C) Starts Anytime****MATH 690 MSc Thesis**

120 Points 1.0000 EFTS

P: Subject to approval of the Head of School.

MATH690-21A (C) Starts Anytime*Part-time enrolment (0.65 EFTS) is available on approval.***MATH 695 MA Thesis**

120 Points 1.0000 EFTS

P: Subject to approval of the Head of School.

MATH695-21A (C) Starts Anytime**MATH 790 Mathematics PhD**

120 Points 1.0000 EFTS

P: Subject to approval of the Head of School.

MATH790-21A (C) Starts Anytime*Part-time enrolment (0.65 EFTS) is available on approval. *From 1 January 2008, international students who are residing in New Zealand on a NZ Immigration Study Visa pay the Domestic Fee for this course. International fees apply for all other courses.*

Mathematics and Philosophy

School of Mathematics and Statistics*Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.***MPHI 450 Project**

39 Points 0.3250 EFTS

P: Subject to approval of the Head of School.

MPHI450-21W (C) Whole Year (S1 and S2)**MPHI 790 Mathematics and Philosophy PhD**

120 Points 1.0000 EFTS

P: Subject to approval of the Head of School.

MPHI790-21A (C) Starts Anytime*Part-time enrolment (0.65 EFTS) is available on approval. *From 1 January 2008, international students who are residing in New Zealand on a NZ Immigration Study Visa pay the Domestic Fee for this course. International fees apply for all other courses.*

Mechanical Engineering

Department of Mechanical Engineering**ENME 199 Workshop Training Course for Mechanical and Mechatronics Engineering**

0 Points 0.0000 EFTS

This workshop training course will give students a basic experience of workshop processes. This course is for Mechanical Engineering and Mechatronics Engineering students.

P: Approval into the BE(Hons) Programme

C: ENME 201 or ENMT 201

ENME199-21A (C) Starts Anytime**ENME 201 Design Communication**

15 Points 0.1250 EFTS

Drawing, design and geometry of engineering components.

P: Subject to the approval of the Dean of Engineering and Forestry. PROD 110 Introduction to Product Design is accepted as an alternative to ENGR 101 Foundations of Engineering.

ENME201-21S1 (C) Semester 1**ENME 202 Stress, Strain and Deformation in Machine Elements**

15 Points 0.1250 EFTS

Axial, torsional, transverse and bending loads; compound states of stress, principal stresses and strains; basic theories of failure for ductile and brittle materials; buckling including local buckling effects; basic energy methods; impact theory.

P: Subject to the approval of the Dean of Engineering and Forestry

ENME202-20SU2 (C) Summer (Nov 20)**ENME202-21S1 (C) Semester 1****ENME 203 Dynamics and Vibrations**

15 Points 0.1250 EFTS

Dynamics and kinematics of machine elements; derivations and fundamental analysis of equation of motion of single-degree-of-freedom systems; vibrations: free and forced vibrations (harmonic, periodic, quasi- and aperiodic), introduction to computational methods to solve differential equations (Euler, Newmark-Beta), multi-degree-of-freedom systems.

P: Subject to the approval of the Dean of Engineering and Forestry

ENME203-21S2 (C) Semester 2

ENME 207 Materials Science and Engineering

15 Points 0.1250 EFTS

Fundamental relationships between structure, processing, physical properties and performance for metallic, ceramic, polymeric, composite and electronic materials.

P: Subject to the approval of the Dean of Engineering and Forestry

ENME207-21S2 (C) Semester 2

ENME 215 Engineering Thermodynamics

15 Points 0.1250 EFTS

This course provides an introduction to the concept of energy and the laws governing the transfers and transformations of energy. The course begins with an emphasis on thermodynamic properties and the First and Second Law analysis of systems and control volumes. This follows with an integration of these concepts into the analysis of basic power cycles. The course continues with an emphasis on the analysis of power and refrigeration cycles and the application of basic principles to engineering problems.

P: Subject to the approval of the Dean of Engineering and Forestry.

R: ENME 204, ENME 305

ENME215-20SU2 (C) Summer (Nov 20)

ENME215-21S1 (C) Semester 1

ENME 221 Engineering Design and Manufacture

15 Points 0.1250 EFTS

Manufacturing processes, metrology and conceptual design. Introduction to CAD.

P: Subject to the approval of the College of Engineering Dean (Academic). PROD 110 Introduction to Product Design is accepted as an alternative to ENGR 101 Foundations of Engineering.

ENME221-21S2 (C) Semester 2

ENME 299 Independent course of Study

15 Points 0.1250 EFTS

Independent course of Study

P: Subject to the approval of the Head of Department

ENME299-21S1 (C) Semester 1

ENME299-21S2 (C) Semester 2

ENME 301 Engineering Design and Production Quality

15 Points 0.1250 EFTS

Design process, creative design, simple structures, shafts, bearings couplings and brakes; mechanical power transmission. Production quality, process design and production management.

P: ENME 201; ENME 202; ENME 221

ENME301-21S1 (C) Semester 1

ENME 302 Computational and Applied Mechanical Analysis

15 Points 0.1250 EFTS

Partial differential equations and their classification; boundary and initial conditions; analytical solution methods. Introduction to computational solution techniques and packages in solid mechanics (FEM), fluid dynamics (CFD) and heat/mass transfer.

P: EMTH 210, EMTH 271 or EMTH 211, ENME 202

ENME302-21S2 (C) Semester 2

ENME 303 Controls and Vibrations

15 Points 0.1250 EFTS

Design and analysis of feedback control systems for dynamic systems. Focus is on using these tools for design and problem solving using classical feedback control methods, including: Laplace transforms, block diagrams, dynamic response, steady-state error analysis, stability analysis, root locus plots, frequency response analysis.

P: EMTH 210; ENME 203

R: ENEL 321

ENME303-20SU2 (C) Summer (Nov 20)

ENME303-21S1 (C) Semester 1

ENME 307 Performance of Engineering Materials

15 Points 0.1250 EFTS

Modelling elastic and plastic behaviour. Mechanisms of ductile/brittle overload, fatigue, creep and corrosion. Linear elastic fracture mechanics. Prediction of remaining life due to fatigue, creep, corrosive environments. Fracture safe design and fracture control plans. Correlation between chemical, structural and physical characteristics of metals and plastics necessary for appropriate material selection, design and processing.

P: ENME 207

ENME307-21S1 (C) Semester 1

ENME 311 Engineering Design and Production Management

15 Points 0.1250 EFTS

Engineering design reports, design for fatigue, fasteners, welded joints, cranes: use of engineering codes, pressure vessel design, hydraulic machinery.

P: ENME 301

R: ENME 351

ENME311-21S2 (C) Semester 2

ENME 313 Electro Technology for Mechanical Engineers

15 Points 0.1250 EFTS

An introduction to the basic principles of circuit theories, RL and RC circuits, transduction principles, mechanical measurements, instrumentation techniques, operational amplifiers, data acquisition, Programmable Logic Control, power electronics and electric machines and control.

P: 60 points at 200-level in mechanical engineering

R: ENMT 201

ENME313-21S2 (C) Semester 2

ENME 314 Fluid Mechanics

15 Points 0.1250 EFTS

This course considers the fundamental concept of fluid mechanics with an introduction to the fundamental conservation equations (in integral and differential forms). The course objective is to give the students the necessary theoretical understanding to analyse and solve complex engineering problems in fluid systems. Applications to a variety of topics are provided including fluid statics, experimental similitude, pipe systems, and turbo machinery.

P: EMTH 210

R: ENME 304

ENME314-21S1 (C) Semester 1

ENME 315 Heat Transfer

15 Points 0.1250 EFTS

This course provides a comprehensive introduction to heat transfer fundamentals and their applications. The course introduces students to the analysis of steady-state and transient one- and multi-dimensional heat conduction. The course considers the analysis of heat transfer by convection using empirical and boundary layer approximations. Radiation heat transfer is considered with applications to multi-body radiation.

P: ENME 215 or ENME 204

R: ENME 305

ENME315-21S2 (C) Semester 2

ENME 351 Biomedical Design & Production Management

15 Points 0.1250 EFTS

Engineering design reports, design for fatigue, fasteners, welded joints, cranes: use of engineering codes, pressure vessel design, hydraulic machinery.

P: ENME 301

R: ENME 311

ENME351-21S2 (C) Semester 2

ENME 396 Independent Course of Study

15 Points 0.1250 EFTS

P: Subject to approval of the Director of Studies

R: ENME 303

ENME396-20SU2 (C) Summer (Nov 20)

ENMT 301 Mechatronics System Design

30 Points 0.2500 EFTS

Developing skills in the mechatronic design process. Design and selection of components common to mechatronic systems using engineering science taught in other courses. Application of modern tools and processes to mechatronic design. Developing engineering communication skills in the context of design.

P: ENMT 201, or ENMT 211 and ENMT 221

ENMT301-21W (C) Whole Year (S1 and S2)

Limited entry. See limitation of entry regulations.

ENGR 401 Computational Fluid Dynamics

15 Points 0.1250 EFTS

Theoretical and practical aspects of Computational Fluid Dynamics, including the theory of fluid flow equations, numerical methods of solving these equations, turbulence, and experience with a commercial CFD software.

P: ENME 304 or ENME 314, or ENCH 393, or ENCN 342

ENGR401-21S1 (C) Semester 1

ENME 401 Mechanical Systems Design

15 Points 0.1250 EFTS

This course involves a series of lectures on applying the process of engineering design. Students will learn to develop their ability in design while completing two design assignments. The first assignment involves a conceptual design task. This task description will be vague and incompletely specified. Students will gather and critically assess information required to clarify the task. During the process of conceptual design students will create alternative design solutions. These solutions will be evaluated and the most suitable design concept selected and developed. The second assignment involves an embodiment and detail design task. Students will start with an engineering concept and will evolve this concept towards a detailed technical system in which performance, reliability and economy are maximised. These objectives are achieved under the umbrella of two overriding objectives, namely, safety and sustainability.

P: ENME 311 or ENMT 301

ENME401-21S1 (C) Semester 1**ENME 403 Linear Systems Control and System Identification**

15 Points 0.1250 EFTS

State-space modelling, solution and analysis of state-space equations. Control systems aspects include state feedback and pole placement, state estimation and optimal control. System identification, which is complementarily related to control systems design/analysis will develop and solve linear methods of model identification and creation from data.

P: ENME 303 or ENEL 321

R: ENEL 430

ENME403-20SU2 (C) Summer (Nov 20)**ENME403-21S1 (C) Semester 1****ENME 404 Aerodynamics and Ground Vehicle Dynamics**

15 Points 0.1250 EFTS

Aerofoil theory; Flat plate lift and drag; Aerofoil lift and drag; Predicting aerofoil data with Xfoil; Boundary layer theory; Aircraft performance; Stability and control in flight; Wind tunnel testing; Glider design, build and test; Propeller design; BEMT method; High speed (compressibility) effects; Wheeled ground vehicles: load transfer, tyre design, traction and rolling resistance, aerodynamics, suspension, steering, and potential flow.

P: ENME 304 or ENME 314

ENME404-21S2 (C) Semester 2**ENME 405 Energy Systems Engineering**

15 Points 0.1250 EFTS

Energy resources, conversion and management. Energy conservation in industrial, commercial and residential sectors. Advanced power cycles, energy analysis, thermal system modelling. Fuels and combustion, environmental aspects.

P: ENME 305 or ENME 315

R: ENGR 404

ENME405-21S1 (C) Semester 1**ENME 406 Engineering Product Design and Analysis**

15 Points 0.1250 EFTS

This course develops engineering design skills with a particular focus on the proficient use of modern CAD-integrated finite element analysis (FEA) tools for optimising product attributes. Modern CAD software is used to produce detailed part and assembly models, which students then analyse. Major topics include: fundamental principles of FEA, design of organic shapes by free-style CAD, CAD-integrated analysis (e.g. stress/strain, thermal loading, dynamics), non-linear analysis (with experimental validation), optimisation, user needs, and the recursive nature of the product design process.

P: ENME 302

ENME406-21S2 (C) Semester 2**ENME 407 Advanced Materials Science and Engineering**

15 Points 0.1250 EFTS

Materials processing; phase transformations in metals and alloys; aluminium and ferrous alloys.

P: ENME 307

ENME407-21S1 (C) Semester 1**ENME 408 Honours Research and Development Project**

30 Points 0.2500 EFTS

Team-based capstone research and development project. The purpose of the course is to develop applied professional problem-solving skills. There are no pre-existing solutions paths, no standard recipes to follow. Students apply research and design, select their own tools and find their own solution.

P: 60 points at 300-level in Mechanical Engineering

C: ENME 418

ENME408-21W (C) Whole Year (S1 and S2)**ENME408-21S2 (C) Semester 2****ENME 418 Engineering Management and Professional Practice for Mechanical Engineers**

15 Points 0.1250 EFTS

The development of engineering management skills is essential to practice as a professional engineer. Engineers carry out technical analyses, but technology is always embedded in the context of society, and usually also business. Engineers therefore need to be able to integrate their solutions and planning within these broader contexts. This course covers several topics in engineering management and professional practice: project management, professional engineering competence and careers, environmental and societal dimensions, cultural and societal expectations, biculturalism and worldviews, health and safety, ethics, risk management, product liability, torts, managing people, team and conflict, structure of organisations, financial budget, cashflow, marketing, vision and strategy, intellectual property protection, among others. The focus throughout the course is on the engineering contexts, including new product development and production engineering. The course develops students' ability to solve problems in these various other areas, and produce integrative solutions for prospective engineering ventures.

P: 60 points at 300-level in Mechanical Engineering

ENME418-21S2 (C) Semester 2**ENME 427 Engineering Failure Analysis and Prevention**

15 Points 0.1250 EFTS

This course examines various failure mechanisms, including corrosion, wear, stress corrosion and fatigue. Problem solving/mitigation methods such as FMEA and 5-Whys will be practiced. There is a significant laboratory component, in which students perform individual failure analysis projects that require competency on metallography, optical microscopy, hardness testing, scanning electron microscopy and energy dispersive X-ray spectroscopy. Hands-on experience will be gained.

P: (1) ENME 207 and (2) ENME 307, or equivalent or with instructor permission.

ENME427-21S2 (C) Semester 2**ENME 451 Biomechanics**

15 Points 0.1250 EFTS

This course will cover research techniques in biomechanics using data capture equipment and provides a framework in which to analyse movement, force generation, and physiology through an understanding of Cartesian vector analysis, analytical methods and tools for the analysis of the human body. Students will be equipped to make quantitative measurements and apply the principles of biomechanics to measuring performance.

P: ENME 307

ENME451-21S2 (C) Semester 2**ENME 460 Aerospace Propulsion**

15 Points 0.1250 EFTS

Carrying out thermodynamic and flow analyses of engine components; understanding the aero-thermodynamic aspects of aircraft engine component design and their performance relationship.

P: Approval from Head of Department

R: ENME 660

ENME460-21S2 (C) Semester 2*Limited entry. See limitation of entry regulations.***ENME 480 Independent Course of Study**

15 Points 0.1250 EFTS

P: Subject to approval of the Head of Department

ENME480-20SU2 (C) Summer (Nov 20)**ENME480-21S1 (C) Semester 1****ENME480-21W (C) Whole Year (S1 and S2)****ENME480-21S2 (C) Semester 2****ENME 481 Special Topic: Materials That Shape Civilization**

15 Points 0.1250 EFTS

The objective of this course is to provide the student with literacy and appreciation for the origins, makeup and behavior of materials upon which modern societies are based—and how we got to where we are today. For instance, how did humans find that metals were locked inside of rocks? Why did the Iron Age replace the Bronze Age? Is there a scientific basis to explain this change? Topics include: the historical origins of materials; major classes of metallic alloys, polymers and ceramics; materials properties; materials for the electronic age; nano-technology; limitations in terms of mechanical and corrosion behavior; societal issues; future materials; and, shortages and environmental problems.

P: ENME 207 or PROD 211 or ENCN 221 or ENCH 394 or ENEL 290

ENME481-21S1 (C) Semester 1**ENME 484 Special Topic: Industry 4.0: Intelligent Manufacturing**

15 Points 0.1250 EFTS

Understanding the drivers and enablers of Industry 4.0. Recognizing the opportunities and challenges, such as future of manufacturing, impacts of Industry 4.0. Understanding key technologies including AI and IIoT in Industry 4.0. Applying techniques in designing real applications in Industry 4.0.

P: ENME 301, ENME 311 or ENMT 301

ENME484-21S1 (C) Semester 1

Tāura | Postgraduate

Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.

ENME 603 Advanced Linear Systems Control and System Identification

15 Points 0.1250 EFTS

State-space modelling, solution and analysis of state-space equations. Control systems aspects include state feedback and pole placement, state estimation and optimal control. System identification, which is complementarily related to control systems design/analysis will develop and solve linear methods of model identification and creation from data.

P: Subject to approval of the Head of Department.

R: ENME 403

RP: Bachelors degree in Engineering or equivalent

ENME603-21S1 (C) Semester 1**ENME 604 Advanced Aerodynamics and Ground Vehicle Dynamics**

15 Points 0.1250 EFTS

Aerofoil theory; Flat plate lift and drag; Aerofoil lift and drag; Predicting aerofoil data with Xfoil; Boundary layer theory; Aircraft performance; Stability and control in flight; Wind tunnel testing; Glider design, build and test; Propeller design; BEMT method; High speed (compressibility) effects; Wheeled ground vehicles: load transfer, tyre design, traction and rolling resistance, aerodynamics, suspension and steering

P: Subject to approval of the Head of Department.

R: ENME 404

RP: Bachelors degree in Engineering or equivalent

ENME604-21S2 (C) Semester 2**ENME 605 Advanced Energy Systems Engineering**

15 Points 0.1250 EFTS

Energy resources, conversion and management. Energy conservation in industrial, commercial and residential sectors. Advanced power cycles, energy analysis, thermal system modelling. Fuels and combustion, environmental aspects.

P: Subject to approval of the Head of Department.

R: ENME 405, ENGR 404

RP: Bachelors degree in Engineering or equivalent

ENME605-21S1 (C) Semester 1**ENME 606 Advanced Engineering Product Design and Analysis**

15 Points 0.1250 EFTS

This course develops engineering design skills with a particular focus on the proficient use of modern CAD-integrated finite element analysis (FEA) tools for optimising product attributes. Modern CAD software is used to produce detailed part and assembly models, which students then analyse. Major topics include: fundamental principles of FEA, design of organic shapes by free-style CAD, CAD-integrated analysis (e.g. stress/strain, thermal loading, dynamics), non-linear analysis (with experimental validation), optimisation, user needs, and the recursive nature of the product design process.

P: Subject to approval of the Head of Department.

R: ENME 406

RP: Bachelors degree in Engineering or equivalent

ENME606-21S2 (C) Semester 2**ENME 607 Advanced Materials Science and Engineering**

15 Points 0.1250 EFTS

Materials processing; phase transformations in metals and alloys; aluminium and ferrous alloys.

P: Subject to approval of the Head of Department.

R: ENME 407

RP: Bachelors degree in Engineering or equivalent

ENME607-21S1 (C) Semester 1**ENME 618 Advanced Engineering Management and Professional Practice for Mechanical Engineers**

15 Points 0.1250 EFTS

The development of engineering management skills is essential to practice as a professional engineer. Engineers carry out technical analyses, but technology is always embedded in the context of society, and usually also business. Engineers therefore need to be able to integrate their solutions and planning within these broader contexts. This course covers the main topics in engineering management and professional practice: project management, professional engineering competence and careers, environmental and societal dimensions, cultural and societal expectations, personal harm, health and safety, ethics, risk management, product liability, torts, managing people, team and conflict, structure of organisations, organisational change, managing a financial budget, cashflow, marketing, vision and strategy, intellectual property protection, entrepreneurship. The focus throughout the course is on the mechanical engineering contexts, including new product development and production engineering. The course develops students' ability to solve problems in these various other areas, and produce integrative solutions for prospective engineering ventures.

P: Subject to approval of the Head of Department.

R: ENME 418

RP: Bachelors degree in Engineering or equivalent

ENME618-21S2 (C) Semester 2**ENME 675 Independent Course of Study**

15 Points 0.1250 EFTS

P: Subject to approval of the Head of Department.

ENME675-21A (C) Starts Anytime**ENME675-21S1 (C) Semester 1****ENME675-21S2 (C) Semester 2****ENME 680 Project**

60 Points 0.5000 EFTS

P: Subject to approval of the Head of Department.

ENME680-21A (C) Starts Anytime**ENME680-21W (C) Whole Year (S1 and S2)****ENME 682 Special Topic in Mechanical Engineering - Project**

30 Points 0.2500 EFTS

P: Subject to approval of the Head of Department

ENME682-21S1 (C) Semester 1**ENME682-21W (C) Whole Year (S1 and S2)****ENME682-21S2 (C) Semester 2****ENME 690 ME Thesis**

120 Points 1.0000 EFTS

P: Subject to approval of the Head of Department.

ENME690-21A (C) Starts Anytime*Part-time enrolment (0.65 EFTS) is available on approval.***ENME 790 Mechanical Engineering PhD**

120 Points 1.0000 EFTS

P: Subject to approval of the Head of Department.

ENME790-21A (C) Starts Anytime

*Part-time enrolment (0.65 EFTS) is available on approval. *From 1 January 2008, international students who are residing in New Zealand on a NZ Immigration Study Visa pay the Domestic Fee for this course. International fees apply for all other courses.*

Mechatronics Engineering

*Department of Mechanical Engineering***ENMT 211 Principles of Mechatronics**

15 Points 0.1250 EFTS

Introduction to Mechatronics Engineering as a discipline. Fundamentals of sensors, actuators, instrumentation, and control systems and communications systems, and how they can be integrated to form a Mechatronics system.

P: Subject to the approval of the Dean of Engineering

R: ENMT 201

ENMT211-21S1 (C) Semester 1**ENMT 221 Mechatronics Design 1**

15 Points 0.1250 EFTS

Introduction to Mechatronics Engineering Design. Fundamentals of the design and manufacturing processes and the tools used in these processes, including engineering drawings, CAD, rapid prototyping.

P: ENMT 211

R: ENMT 201

ENMT221-21S2 (C) Semester 2**ENMT 401 Mechatronics Honours Research and Development Project**

30 Points 0.2500 EFTS

Capstone research and development project. Students apply knowledge and skills to solve real-life engineering problems; develop professional problem-solving skills and independent research ability.

P: ENMT 301, ENME 303, ENME 302, ENCE 361, ENEL 372

ENMT401-21W (C) Whole Year (S1 and S2)**ENMT401-21S2 (C) Semester 2****ENMT 482 Robotics**

15 Points 0.1250 EFTS

This course is structured as two parts: (1) articulated robot manipulators and (2) autonomous mobile robotics. Articulated manipulators form an important class of robots that are commonly used in industrial situations. The purpose of this part of the course is to introduce students to fundamental concepts of geometry, kinematics, dynamics, and control of robotic systems

allowing students to model and analyse a robot manipulator. The autonomous mobile robotics part of the course is an introduction to the probabilistic robotics techniques that underpin self-driving cars and other autonomous robots. This course is project-based and students will be given the opportunity to apply the material in both simulation and with real industrial and research robots through project work.

P: ENME 403

ENMT482-21S2 (C) Semester 2

Media and Communication

School of Language, Social and Political Sciences

COMS 101 Media and Society

15 Points 0.1250 EFTS

COMS101 explores the relationship between society and media - including social media, print, broadcasting, and all kinds of online spaces. It asks how our understandings of the world and people around us are mediated, how media have shaped society, and how society is reflected and produced through media. We will explore topics like media audiences, technologies, ownership and work; the frames of representation, power, and identity; and analytical tools like semiotics, discourse, and narrative. COMS101 is a stage one course that does not require any prior media study, but it builds on everything you have ever watched, listened to, interacted with, and produced.

COMS101-21S1 (C) Semester 1

COMS101-21S1 (D) Semester 1

COMS 102 Introduction to News and Journalism

15 Points 0.1250 EFTS

This course provides students with an understanding of the forces that shape the selection and presentation of news. It introduces significant theoretical approaches that seek to explain what is news and the criteria by which it is selected; it explores key aspects of the production of news and analyses specific areas of news (foreign, political, sport and crime) in more depth.

COMS102-21S2 (C) Semester 2

COMS102-21S2 (D) Semester 2

COMS 104 Introduction to Strategic Communication

15 Points 0.1250 EFTS

This course examines the role of strategic communication in society as an economic and political force. Strategic communication attempts to persuade and argue for a particular position that one is advocating for - whether that be on behalf of a business, a governmental policy, or a social cause. Obvious examples from within media are public relations and advertising, however, this course will examine how sponsored messaging has affected social institutions, from education to politics to media to health to philanthropy. The second half of the course is focused on building the skills necessary to create effective strategic messages.

COMS104-21S2 (C) Semester 2

COMS104-21S2 (D) Semester 2

COMS 201 Media Audiences

15 Points 0.1250 EFTS

How does our media consumption shape our opinions, actions, identities and lives? How do audiences influence the production and circulation of media? How do we create our own media presence online, and act as an audience for each other? This course will examine the relationship between audiences and media. We will discuss theory and research that represents audiences as passive consumers of media products, active decoders of media texts, producers of our own representations online, and participants in interactive media production. The course will look at a broad range of media forms (such as television, radio, film, the Internet, social networking, home theatre, cell phones and videogames), and content (including violence, music, reality television, soap operas, news, Facebook, Twitter, and blogs). "Media Audiences" will encourage you to reflect on your own relationship with media, and to consider the broader contexts that shape your listening, viewing, reading, and interaction. We will also be intertwining the theory of audiences with a 'live' research exercise which will guide you through the necessary steps to conducting your own research.

P: Any 15 points at 100 level from COMS or CULT, or any 60 points at 100 level from the Schedule V of the BA.

R: CULT 201

EQ: CULT 201

COMS201-21S2 (C) Semester 2

COMS201-21S2 (D) Semester 2

COMS 204 Advertising and Cultural Consumption

15 Points 0.1250 EFTS

Advertising has become a central component of our contemporary cultural environment that finances all of the communication industries. However, the effects of advertising may lie far outside only the funding of media systems. This course explores the increasingly strained relationship between advertising, consumerism, identity, the environment and citizenship. We'll take a critical approach to the most ubiquitous form of media messaging that exists: the advertisement.

P: Any 15 points at 100 level from COMS, or any 60 points at 100 level from the Schedule V of the BA.

COMS204-21S2 (C) Semester 2

COMS204-21S2 (D) Semester 2

COMS 205 Media and Politics

15 Points 0.1250 EFTS

The course provides an understanding of the role of the media in domestic and international politics. It does this by analysing key theoretical assumptions and debates on the role of media institutions in the struggle for power domestically and internationally.

P: Any 15 points at 100 level from COMS or POLS, or any 60 points at 100 level from the Schedule V of the BA.

R: POLS 232

EQ: POLS 232

COMS205-21S1 (C) Semester 1

COMS205-21S1 (D) Semester 1

COMS 207 Social Media

15 Points 0.1250 EFTS

This course contains practical work in the community and groupwork. The course prepares students to do public communication in a rapidly changing media environment. The first half of the course explores how a range of social media platforms work and how professional communicators are attempting to use it. Topics include networks, convergence culture, privacy and new forms of public life. In the second half of the course students apply these ideas in small-group projects for a community organisation or company.

P: Any 15 points at 100 level from COMS or DIGI, or any 60 points at 100 level from the Schedule V of the BA.

R: COMS 222 (2008-2012), DIGI 207

EQ: DIGI 207

COMS207-21S1 (C) Semester 1

COMS 225 Politics and New Media

15 Points 0.1250 EFTS

A Facebook profile is required to take part in this course. This course is being offered at two universities at once in Finland and Aotearoa New Zealand. Students will take part in discussions with students from the other university and will be taught by academics from each university, with a tutor and lecturer at Canterbury coordinating the local version of the course. The course studies the latest developments on how public life and politics are being shaped by web-based communication. You will be asked to think critically about the globalisation of politics online, about the divisions between haves and have nots and about the ways different groups pursue their agendas online.

P: Any 15 points at 100 level from COMS, or any 60 points at 100 level from any subject.

COMS225-21SUI (C) Summer (Jan 21)

COMS 231 Digital Media Production

15 Points 0.1250 EFTS

This practical course introduces students to foundational digital media skills and provides an overview of how to produce and package content for online and mobile platforms. Students will analyse current trends in media practice, create content across a range of media and media texts, and reflect on their own practice, including the ethical responsibilities of digital communication.

P: With permission of the Head of Department.

COMS231-21S1 (C) Semester 1

COMS 232 Risk and Crisis Communication

15 Points 0.1250 EFTS

This applied course introduces students to a major area of the planning of communication, the management of risk. Theories of risk, crisis and the risk society are described, before the course focuses in detail on the practice of risk communication, including communication planning, crafting messages and involving communities in collective risk decision-making. Risks explored range from individuals' health and safety, disasters, reputational crises and pervasive risks such as climate change.

P: 15 points at 100-level in COMS. Students without this prerequisite but with at least a B average in 60 points of relevant courses, may enter the course with the approval of the Department Co-ordinator or the Undergraduate Co-ordinator for COMS.

COMS232-21S2 (C) Semester 2

COMS232-21S2 (D) Semester 2

COMS 233 Media Law for Journalists

15 Points 0.1250 EFTS

By the end of this course students are expected to have a basic understanding of the range and impact of laws and regulations restricting the media and journalists in New Zealand, including their underpinning principles.

P: Limited Entry: Subject to admission to the Journalism Major and permission from the Head of Department.

R: LAWS 396

COMS233-21S2 (C) Semester 2

Limited entry. See limitation of entry regulations.

COMS 305 Media and Social Change

30 Points 0.2500 EFTS

This course analyses the role of the media in social change and question whether media can, in fact, produce consensus within society, and if those changes are controllable by the artist/writer/producer, the audience, or the state. It does this by exploring theoretical underpinnings of societal shifts through the framework of the media as an important institution in society and in the construction of social reality. The course will invite students to further understand the role of the media in power relations by analysing such notions and processes as ideology, hegemony, representations, and media ethics.

P: Any 30 points at 200 level from COMS, or any 60 points at 200 level from the Schedule V of the BA.

COMS305-21S1 (C) Semester 1**COMS 306 Media Communication in International Context**

30 Points 0.2500 EFTS

The course sets out to provide a critical insight and analysis into the role of media in contemporary international contexts. Its focus is on political communication during conflicts and wars, as well as its contribution to international collaborations and cross-border and cross-culture dialogues. Through a series of in-depth case studies, the course provides a comprehensive review of the key concepts and theories on the media's impact on, and role in international political communication.

P: Any 30 points at 200 level from COMS or POLS, or any 60 points at 200 level from the Schedule V of the BA.

R: POLS 332

EQ: POLS 332

COMS306-21S2 (C) Semester 2**COMS306-21S2 (D)** Semester 2**COMS 320 Strategic Campaign Development**

30 Points 0.2500 EFTS

This advanced course in strategic communication will start with a broad introduction of the process of strategic planning strategic communication. After that, a significant portion of the course will be devoted to different situations that a campaign creator may come across. The course will talk about theoretical and professional strategies in advertising and public relations. Students will learn ways to create different types of campaign messages.

P: Any 30 points at 200 level from COMS, or any 60 points at 200 level from the Schedule V of the BA.

COMS320-21S1 (C) Semester 1**COMS 330 Communication in Context**

30 Points 0.2500 EFTS

This course enables students to put their professional knowledge into a broader context of the communication landscape and the wider social landscape. The course will be divided into a series of modules in which different aspects of the context will be studied. Students will develop competence to work in bicultural and global contexts, learn about the responsibilities of a good communication practitioner and be asked to reflect on the kind of role they wish to fill.

P: 30 points of COMS at 200-level.

COMS330-21S1 (C) Semester 1**COMS 331 Researching and Reporting News**

30 Points 0.2500 EFTS

This course provides an introduction to the foundational skills and knowledge required for communicating news and information to various publics. Students will learn how to develop writing and multimedia skills to produce engaging digital content. They will also gain knowledge of their ethical responsibilities and learn to critically reflect on their own and others' media practice. The course combines analytical skills with practical experience, including fieldwork and internship opportunities, to help consolidate the links between theory and practice, and develop independence in professional work.

P: Limited Entry. (i) COMS 231, COMS 232, COMS 233. (ii) Permission from the Head of Department.

COMS331-21S1 (C) Semester 1

Limited entry. See limitation of entry regulations.

COMS 332 News Production

30 Points 0.2500 EFTS

This course builds on the foundational skills and knowledge required for communicating news and information to various publics. Students will learn how to develop their reporting and multimedia skills to produce engaging digital content. They will also gain knowledge of their ethical responsibilities and learn to critically reflect on their own and others' media practice. The course combines analytical skills with practical experience, including fieldwork and internship opportunities, to help consolidate the links between theory and practice, and develop independence in professional work.

P: Limited Entry. (i) COMS 331 (ii) Permission from the Head of Department.

COMS332-21S2 (C) Semester 2

Limited entry. See limitation of entry regulations.

COMS 333 Podcasting Project

30 Points 0.2500 EFTS

The course will combine teaching on the development of podcasting as an extension of radio and a media form in its own right and modes of storytelling across media, theoretical exploration of audio storytelling, analysis of a wide range of podcast examples, technical training in audio recording and editing, and a student-project in which they will develop and produce a podcast of their own.

P: 15 points at 200-level in COMS. Students without this prerequisite but with at least a B average in 60 points of relevant courses, may enter the course with the approval of the Department Co-ordinator or the Undergraduate Co-ordinator for COMS.

COMS333-21S2 (C) Semester 2**PACE 395 Internship**

30 Points 0.2500 EFTS

What can you do with your major? With your degree? The purpose of the internship course is to explore both the ideological and practical assumptions guiding this question. The course is designed to be a critical, theoretical and "real-world" examination of the practices and ideologies inherent in both community and business organisations. You will apply the analytical skills acquired through your major, and through class seminars and readings, to a project designed by a local company or community group. Please check out the website for further information and specific project descriptions: www.arts.canterbury.ac.nz/internships

P: 150 points, special application and interview, and permission of the Internship Director.

R: ARTS 395

EQ: ARTS 395

PACE395-20S2 (C) Summer (Nov 20)**PACE395-21A (C)** Starts Anytime**PACE395-21S1 (C)** Semester 1**PACE395-21S2 (C)** Semester 2

Limited entry. See limitation of entry regulations. A student will be selected for a specific project.

Only students accepted for projects will be allowed into the course. Please go to <http://www.arts.canterbury.ac.nz/internships> for more information.

Tāura | Postgraduate

Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.

COMS 408 Communication Ethics

30 Points 0.2500 EFTS

This course introduces students to a range of ethical frameworks by which to study the responsibilities of media producers, the tenor of the relationships enabled by their textual practices, the quality of public spaces opened up in public communication and the social impact of mediated communication.

P: Subject to approval of the Head of Department.

R: COMS 422, PHIL 469

COMS408-21S1 (C) Semester 1**COMS408-21S1 (D)** Semester 1**COMS 420 Public Diplomacy**

30 Points 0.2500 EFTS

Public diplomacy relates to efforts by state and non-state actors to influence public opinion in other countries. With the growth of soft power and new media and information technologies, public diplomacy is considered to be of growing importance in international relations. This course reviews the emerging theoretical literature on public diplomacy and a number of case studies on how different states and multilateral organisations have used public diplomacy in recent years to improve their international image.

P: Subject to approval of the Programme Coordinator.

R: DIPL 430, POLS 430

COMS420-21S2 (C) Semester 2**COMS 421 Strategic Communication Theory and Application**

30 Points 0.2500 EFTS

This course will talk about theories and research about different aspects in the process of strategic communication, including the groups/organizations, targets of the messages, the media outlet for the messages. How the theories can be applied in real-life situations will be explored, including professional strategies in advertising and public relations. Ethical practices in the professional environment will be discussed.

P: Subject to approval of the Head of Department.

COMS421-21S1 (C) Semester 1**COMS421-21S1 (D)** Semester 1**COMS 425 Campaign Planning with Social Data Analysis**

30 Points 0.2500 EFTS

This is a course about planning media campaigns, in particular, it focuses on the use of social data analysis in planning campaigns. The course will introduce what campaigns are, their purposes and effects, their importance in the society, and the strategies of developing a media advocacy plan. A significant portion of the course will be about the use of social data analysis, including big data and social network analysis, in informing and evaluating campaigns. Students will be given opportunities to manage social data and develop their campaign plans according to their interests based on the data. Such plans can be related to social policies, public health and safety, human rights, etc., and can be delivered through different communication channels

including traditional mass media and social media. Controversies around the ethical uses of social data for campaign planning will be discussed, and students will need to identify ethical practices of using the data.

P: Subject to approval of the Head of Department.

COMS425-21S2 (C) Semester 2

COMS 480 Research Topic

30 Points 0.2500 EFTS

A research paper, that shall not normally exceed 10,000 words, on an aspect of Mass Communication which must be submitted in the year of enrolment unless an extension is approved by the Head of Department.

P: Subject to approval of the Programme Co-ordinator.

COMS480-21S1 (C) Semester 1

COMS480-21S2 (C) Semester 2

COMS 650 MA Dissertation

60 Points 0.5000 EFTS

MA Dissertation

P: Subject to approval of the Head of Department.

COMS650-21A (C) Starts Anytime

COMS650-21S1 (C) Semester 1

COMS650-21S2 (C) Semester 2

COMS 690 MA Thesis

120 Points 1.0000 EFTS

P: Subject to approval of the Head of Department.

COMS690-21A (C) Starts Anytime

Part-time enrolment (0.65 EFTS) is available on approval.

COMS 692 Dissertation in Professional Communication

60 Points 0.5000 EFTS

Students will complete a dissertation, normally 15,000 - 20,000 words in length, on a topic of their choice, under academic supervision.

P: Subject to approval of the Head of Department.

COMS692-21A (C) Starts Anytime

COMS 790 Media and Communication PhD

120 Points 1.0000 EFTS

P: Subject to approval by the Head of Department.

COMS790-21A (C) Starts Anytime

*Part-time enrolment (0.65 EFTS) is available on approval. *From 1 January 2008, international students who are residing in New Zealand on a NZ Immigration Study Visa pay the Domestic Fee for this course. International fees apply for all other courses.*

Medical Physics

School of Physical and Chemical Sciences

Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.

MDPH 401 Anatomy and Physiology

15 Points 0.1250 EFTS

Human anatomy, physiology, pathophysiology, cell biology, cancer, physiological measurement, medical terminology.

P: ENME 311 or ENME 351, or subject to approval of the Head of Department.

MDPH401-21S1 (C) Semester 1

MDPH 402 Nuclear Medicine

15 Points 0.1250 EFTS

Radioactive decay and the choice of radionuclides, radiopharmaceuticals, imaging systems in nuclear medicine, diagnostic applications of nuclear medicine, radiation protection.

P: Subject to approval of the Head of Department.

MDPH402-21S2 (C) Semester 2

MDPH 403 Radiation Physics

15 Points 0.1250 EFTS

Ionising radiation, interactions, energy deposition, nuclear models, radiation units, radiation generation, and isotope production.

P: Subject to approval of the Head of Department

R: PHYS 403

EQ: PHYS 403

MDPH403-21S1 (C) Semester 1

MDPH 404 Radiation Biology

15 Points 0.1250 EFTS

Radiation measurement, radiation biology, carcinogenesis, ICRP system of radiation protection, radiation safety.

P: Subject to approval of the Head of Department

MDPH404-21S1 (C) Semester 1

MDPH 405 Radiation Therapy

15 Points 0.1250 EFTS

Radiotherapy equipment, calibration, phantoms, radiotherapy dosimetry, beam data, beam modifiers, patient positioning, quality assurance.

P: Subject to approval of the Head of Department.

MDPH405-21S2 (C) Semester 2

MDPH 406 Medical Imaging

15 Points 0.1250 EFTS

Radiographic practice and terminology, image perception, x-ray, fluoroscopy, CT, MRI, ultrasound, digital radiographic image measurement, patient dosimetry, occupational radiation dose factors, quality assurance.

P: Subject to approval of the Head of Department.

EQ: PHYS 406

MDPH406-21S2 (C) Semester 2

MDPH 407 Research Tools

15 Points 0.1250 EFTS

This course is preparation for research in the Medical Physics area and includes modules on writing, presentation and typesetting skills, programming, statistics, data analysis, optimization, medical treatment planning and Monte Carlo modelling of radiation transport.

P: Subject to approval of the Head of Department

R: PHYS 407

MDPH407-21W (C) Whole Year (S1 and S2)

MDPH407-21S1 (C) Semester 1

MDPH 408 Special Topic

15 Points 0.1250 EFTS

P: Subject to approval of the Head of Department.

MDPH408-21S1 (C) Semester 1

MDPH 409 Special Topic

15 Points 0.1250 EFTS

P: Subject to approval of the Head of Department.

MDPH409-21S2 (C) Semester 2

MDPH 410 Special Topic

15 Points 0.1250 EFTS

P: Subject to approval of the Head of Department.

MDPH410-21S2 (C) Semester 2

MDPH 480 Medical Physics Research Project

30 Points 0.2500 EFTS

An independent research project in Medical Physics for 400-level students

P: Entry subject to approval of the Head of Department

MDPH480-21A (C) Starts Anytime

MDPH 690 MSc Thesis for Medical Physics

120 Points 1.0000 EFTS

P: Subject to approval of the Head of Department.

MDPH690-21A (C) Starts Anytime

Part-time enrolment (0.65 EFTS) is available on approval.

MPHC 690 MSc Thesis for Medical Physics (Clinical)

120 Points 1.0000 EFTS

P: Subject to approval of the Head of Department.

MPHC690-21A (C) Starts Anytime

Part-time enrolment (0.65 EFTS) is available on approval.

Microbiology

MDPH 790 Medical Physics PhD

120 Points 1.0000 EFTS

P: Subject to approval of the Head of Department.

MDPH790-21A (C) Starts Anytime

*Part-time enrolment (0.65 EFTS) is available on approval. *From 1 January 2008, international students who are residing in New Zealand on a NZ Immigration Study Visa pay the Domestic Fee for this course. International fees apply for all other courses.*

MPHC 790 Medical Physics (Clinical) PhD

120 Points 1.0000 EFTS

P: Subject to approval of the Head of Department.

MPHC790-21A (C) Starts Anytime

*Part-time enrolment (0.65 EFTS) is available on approval. *From 1 January 2008, international students who are residing in New Zealand on a NZ Immigration Study Visa pay the Domestic Fee for this course. International fees apply for all other courses.*

Microbiology

School of Biological Sciences

Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.

MBIO 480 Project

30 Points 0.2500 EFTS

A written report on a research project approved by the Head of Department. The report must be completed and presented to the Registrar by 1 November in the year in which the student presents the courses selected from BIOL434-493

P: Subject to approval of the Head of School.

MBIO480-21W (C) Whole Year (S1 and S2)**MBIO 690 MSc Thesis**

120 Points 1.0000 EFTS

P: Subject to approval of the Head of School.

MBIO690-21A (C) Starts Anytime

Part-time enrolment (0.65 EFTS) is available on approval.

MBIO 790 Microbiology PhD

120 Points 1.0000 EFTS

P: Subject to approval of the Head of School.

MBIO790-21A (C) Starts Anytime

*Part-time enrolment (0.65 EFTS) is available on approval. *From 1 January 2008, international students who are residing in New Zealand on a NZ Immigration Study Visa pay the Domestic Fee for this course. International fees apply for all other courses.*

Music

*School of Music***MUSA 100 Essentials in Music Techniques**

15 Points 0.1250 EFTS

This course provides students with a fundamental understanding of harmonic, rhythmic and melodic notation, and develops aural skills with a basic competence in rhythmic and melodic dictation, sight-singing and sight-reading, and essential harmony.

R: MUSI 107

MUSA100-21S1 (C) Semester 1**MUSA 101 Musicianship, Harmony and Analysis 1**

15 Points 0.1250 EFTS

This course develops competence in rhythmic, melodic and simple harmonic procedures, fundamental music analysis techniques, sight-singing and sight-readings skills and simple harmonizations using keyboard or guitar.

P: MUSA 100 or equivalent preparation approved by the Head of School

R: MUSI 112, MUSI 171

MUSA101-21S2 (C) Semester 2**MUSA 120 Song Writing 1**

15 Points 0.1250 EFTS

This course deals with the basics of song-writing including creative approaches to song writing, song notation skills, listening-based analytic techniques of songs from a wide repertoire.

P: Subject to approval of the Head of the New Music programme, on submission of a portfolio.

MUSA120-21S2 (C) Semester 2

120 2021 Rārangī Akoranga

MUSA 121 Composition 1A

15 Points 0.1250 EFTS

Developing students' skills in creating and notating contemporary art music for live performance (vocal and instrumental), and building knowledge of compositional techniques and procedures.

P: Subject to approval of Head of New Music.

R: MUSI 127

MUSA121-21S1 (C) Semester 1**MUSA 122 Composition 1B**

15 Points 0.1250 EFTS

This course aims to further develop students' skills in creating and notating contemporary art music for live performance (vocal and instrumental), knowledge of compositional techniques and procedures, and verbal articulation skills regarding compositional goals and methods.

P: MUSA 121, and either MUSA 100, or equivalent preparation approved by the Head of School.

R: MUSI 127

MUSA122-21S2 (C) Semester 2**MUSA 125 Music Technologies**

15 Points 0.1250 EFTS

Development of knowledge of Digital Audio Workstations (DAWs) and the fundamentals of using computers for digital sampling, mixing and editing. Developing skills in the use of computer-based music notation technologies.

R: MUSI 125, DIGI 125

MUSA125-21S1 (C) Semester 1**MUSA 128 Home Audio Production**

15 Points 0.1250 EFTS

In this course students will learn how to create their own music and audio content in a home studio, and prepare it for. The course is aimed at anyone interested in honing their knowledge of music production using readily available tools. This might include (but is not limited to) podcasters or video bloggers looking to enhance the quality and impact of audio materials, singer songwriters who want to record and produce their own music, or bedroom producers who want to create their own tracks at home. No prior experience in audio production or music is required, and all equipment required is provided for the duration of the course. Skills taught include Digital Audio Workstation operation, field recording, equalization and dynamics processing, editing, mixing, and preparing digital files for upload or delivery. The course will be taught using industry standard software and hardware, but the skills are transferable to any situation.

MUSA128-21SU1 (C) Summer (Jan 21)**MUSA 131 Songs, Symphonies and Samples: Music in a Changing World**

15 Points 0.1250 EFTS

This course provides a topic-based approach to music history, focusing on issues including cultures of print, authenticity, technological change, the relationship of the past to the present, and the patronage and funding of music.

R: MUSI 131

MUSA131-21S1 (C) Semester 1**MUSA 141 Performance Major 1A**

15 Points 0.1250 EFTS

Students develop technical skills in an instrument or voice, music knowledge and understanding through performance on an instrument or with voice, and develop a knowledge of the repertoire for that specific instrument or voice. This course is only available to students in the Mus.B.

P: Subject to approval of the Head of School following an audition.

R: MUSI 141

MUSA141-21S1 (A) Semester 1**MUSA 142 Performance Major 1B**

15 Points 0.1250 EFTS

This course builds on MUSA 141 to provide students with further technical skills, musical knowledge and understanding through performance on an instrument or with voice. Students will gain further knowledge of the repertoire for their particular instrument and undertake a concert performance at the end of the semester. This course is only available to students in the Mus.B.

P: MUSA 141

R: MUSI 141

MUSA142-21S2 (A) Semester 2**MUSA 143 Performance (Non-Major) 1**

15 Points 0.1250 EFTS

This course enables students to develop technical skills in an instrument or voice, music knowledge and understanding through performance on an instrument or with voice, and develop knowledge of the repertoire for that specific instrument or voice. It is designed for

students from a non-Performance major (or a non-music degree), or for Performance Major students who wish to study a relevant second instrument (or possibly voice).

P: Subject to approval of the Head of School following an audition.

R: MUSI 140

MUSA143-21W (A) Whole Year (S1 and S2)

MUSA 150 Music in Aotearoa New Zealand

15 Points 0.1250 EFTS

A broad-genre approach to the history of music in and of Aotearoa New Zealand, with particular emphasis on notions of identity in a bicultural society, musical identity, sound and place.

R: CULT 150

EQ: CULT 150

MUSA150-21S2 (C) Semester 2

MUSA 151 The Music Industry

15 Points 0.1250 EFTS

This course is designed for musicians who seek to understand the current state of the music industry and learn principles of marketing for musicians. The course covers application processes and funding structures, basic business skills for musicians, and the issues associated with copyright and the internet-based dissemination of music.

MUSA151-21S2 (C) Semester 2

MUSA 152 Acoustics and Recording Techniques

15 Points 0.1250 EFTS

This course provides an introduction to the principles and vocabulary of acoustics, an appreciation of how acoustic signals are converted to digital, familiarisation with the common vocabulary of Digital Audio Workstations (DAWs) and recording terminology, and understanding of the principles of microphone placement, and of how to work with a recording engineer.

R: MUSI 180

MUSA152-21S2 (C) Semester 2

MUSA 190 Chamber Choir 1

15 Points 0.1250 EFTS

This course develops sophisticated choral singing skills, good rehearsal techniques and discipline, and diction in English and other languages. Public performances are a part of this course.

P: Subject to approval of the Head of School following an audition.

R: MUSI 192

MUSA190-21W (C) Whole Year (S1 and S2)

MUSA 193 Ensemble 1

15 Points 0.1250 EFTS

MUSA193 aims to develop students' performance and rehearsal skills in one or more music ensembles ranging from large, such as orchestra (UC-CYO) or UC gamelan ensemble, to small ensembles such as three-piece contemporary bands or chamber groups.

P: Applicants will either be accepted on the basis of their audition for Performance courses, or on the basis of a successful short audition with the Course co-ordinator or their delegate.

R: MUSA 191, MUSA 192, MUSI 142, MUSI 143, MUSI 144, MUSI 145, MUSI 194, MUSI 198.

MUSA193-21W (C) Whole Year (S1 and S2)

MUSA 200 Musicianship, Harmony and Analysis 2

15 Points 0.1250 EFTS

This course develops skill in rhythmic, melodic and harmonic procedures, further music analysis techniques, sight-singing and sight-reading skills, including inner parts and counter-rhythms and extended harmonizations using keyboard or guitar.

P: MUSA 101

R: MUSI 220

MUSA200-21S1 (C) Semester 1

MUSA 201 Harmony and Score-Reading

15 Points 0.1250 EFTS

This course will enable students to develop aural and notation skills in complex rhythmic, melodic and harmonic processes and skills in music analysis techniques including the analysis of orchestral scores. Students will also learn to conduct from a four-part score and/or perform a simple keyboard reduction from an orchestral score.

P: MUSA 200

R: MUSI 271

MUSA201-21S2 (C) Semester 2

MUSA 221 Composition 2A

15 Points 0.1250 EFTS

This course aims to further develop the skills of creating and notating contemporary art music for live performance.

P: MUSA 122, or MUSA 120 and MUSA 101, and permission of the Head of New Music required.

R: MUSI 227

MUSA221-21S1 (C) Semester 1

MUSA 222 Composition 2B

15 Points 0.1250 EFTS

This course builds on MUSA 221 to further develop the skills of creating and notating contemporary art music for live performance.

P: MUSA 221

R: MUSI 227

MUSA222-21S2 (C) Semester 2

MUSA 224 Orchestration and Arranging

15 Points 0.1250 EFTS

This course will assist students to further develop skills in instrumentation and scoring for combinations of instruments, writing arrangements for small ensembles, using virtual instruments, and scoring for film.

P: Either MUSA 100 or MUSA 101

R: MUSI 224

MUSA224-21S1 (C) Semester 1

MUSA 229 Introduction to Game Audio

15 Points 0.1250 EFTS

Learn foundation skills in sound design and music for games. The course will survey current industry practices, and students will gain knowledge of a variety of approaches to audio creation, editing and integration into video games. No prior experience in music, sound, or game design is required.

P: Any 60 points at 100 level, and HOD permission.

R: PROD 229

MUSA229-20SU2 (C) Summer (Nov 20)

MUSA229-21SU2 (C) Summer (Nov 20)

MUSA 232 Musics of the World

15 Points 0.1250 EFTS

This course explores musical traditions from a range of geographical regions, and provides an introduction to key concepts for the study of ethnomusicology.

P: MUSA 131, or 60 points at 100 level from the Schedule V of the MusB or Schedule V of the BA.

R: MUSA 332

MUSA232-21S1 (C) Semester 1

MUSA 234 Contemporary Music

15 Points 0.1250 EFTS

An exploration of various 20th and 21st century Western art music styles and techniques. The course includes score analysis and aural recognition, and covers technological developments, political and social upheavals and the effects of these on composers and their output.

P: MUSA 131, and either MUSA 100 or MUSA 101.

R: MUSA 334

MUSA234-21S2 (C) Semester 2

MUSA 241 Performance Major 2A

15 Points 0.1250 EFTS

Performance work involving weekly individual lessons, performance classes and ensemble training in an approved instrument or in voice.

P: MUSA 142 with a C grade or higher, or MUSA 143 with an A grade or higher, and at least 15 points from MUSA 100, MUSA 101, MUSA 120, MUSA 121, MUSA 125, and approval of the Head of School.

R: MUSI 241

MUSA241-21S1 (A) Semester 1

MUSA 242 Performance Major 2B

15 Points 0.1250 EFTS

Performance work involving weekly individual lessons, performance classes and ensemble training in an approved instrument or in voice.

P: MUSA 241

R: MUSI 241

MUSA242-21S2 (A) Semester 2

MUSA 243 Performance (Non-Major) 2

15 Points 0.1250 EFTS

This course aims to further develop technical skills in an instrument or voice, either for students from a non-Performance major (or a non-music degree), or for Performance Major students who wish to study a relevant second instrument (or possibly voice).

P: MUSA 143

R: MUSI 240

MUSA243-21W (A) Whole Year (S1 and S2)

Music

MUSA 250 Music in our Community

15 Points 0.1250 EFTS

This course facilitates a deeper understanding of music-making in local and virtual communities alongside developing students' self-reflection as emerging professional musicians. Students develop their knowledge and understanding of bicultural aspects of music-making in our communities, build resilience and future-focused career development, enhance cultural understandings of and respect for self and 'other', and engage reflectively in community music-making activities.

P: Any 30 points at 100 level from MUSA.

MUSA250-21S2 (C) Semester 2**MUSA 252 Kapa Haka - Introducing Māori Performing Arts**

15 Points 0.1250 EFTS

Designed for Māori and non-Māori, performance competent and new learners, language and non-language students this course takes the class on a journey of exploration to a high level of performance studying the mythological and traditional origins and tikanga of performing arts, moteatea (traditional song), poi (ball dance), waiata a-ringā (action song), haka and the art of warfare, mau rakau (weaponry - ti rakau, titi torea, hapai rakau, taiaha, patu), the role of male and female leaders, biographies of important composers, the renaissance of performing arts and competition. Students learn a full performance bracket and a selection of ancient, historical and sacred classic tribal anthems including: E pa to hau; Kikiki, Tika tonu, Taku rakau, Ruaumoko, E rere te ao, Ka eke ki Wairaka

P: Any 15 points at 100 level from MAOR, MUSA, or TREO, or any 60 points at 100 level from the Schedule V of the MusB or the Schedule V of the BA.

R: MAOR 282, TREO 282, MAOR 382, TREO 382

EQ: MAOR 282, TREO 282

MUSA252-21S2 (C) Semester 2**MUSA 290 Chamber Choir 2**

15 Points 0.1250 EFTS

This course builds on MUSA 190, expanding development of sophisticated choral singing skills and good rehearsal techniques, and performing in public.

P: MUSA 190 and subject to approval of the Head of School.

MUSA290-21W (C) Whole Year (S1 and S2)**MUSA 293 Ensemble 2**

15 Points 0.1250 EFTS

MUSA293 aims to further develop students' performance and rehearsal skills in one or more music ensembles ranging from large, such as orchestra (UC-CYO) or UC gamelan ensemble, to small ensembles such as three-piece contemporary bands or chamber groups.

P: MUSA 191, MUSA 192, or MUSA 193.

R: MUSA 291, MUSA 292, MUSI 294.

MUSA293-21W (C) Whole Year (S1 and S2)**MUSA 320 Conducting**

30 Points 0.2500 EFTS

Fundamental conducting techniques and experience in front of choir, ensemble and orchestra.

P: MUSA 201 or approval by Head of School

R: MUSI 320

EQ: MUSI 320

MUSA320-21W (A) Whole Year (S1 and S2)**MUSA 321 Composition 3A**

30 Points 0.2500 EFTS

Students develop a portfolio of compositions (notated and/or digital and/or performed live) together with supporting documentation.

P: MUSA 222 or MUSA 224 or MUSA 226

R: MUSI 327

MUSA321-21S1 (C) Semester 1**MUSA 322 Composition 3B**

30 Points 0.2500 EFTS

Students develop a portfolio of compositions (notated and/or digital and/or performed live) together with supporting documentation.

P: MUSA 321

R: MUSI 327

MUSA322-21S2 (C) Semester 2**MUSA 332 Musics of the World**

15 Points 0.1250 EFTS

This course examines music-making in a range of communities in diverse geographical regions, and provides develops concepts and skills in ethnomusicology.

P: One of MUSA 231-234.

R: MUSA 232

MUSA332-21S1 (C) Semester 1**MUSA 334 Contemporary Music**

15 Points 0.1250 EFTS

An exploration of various 20th and 21st century Western art music styles and techniques. The course includes score analysis and aural recognition, and covers technological developments, political and social upheavals and the effects of these on composers and their output.

P: Any 30 points at 200 level from MUSA, or any 60 points at 200 level from the Schedule V of the MusB or the Schedule V of the BA.

R: MUSA 234

MUSA334-21S2 (C) Semester 2**MUSA 341 Performance Major 3A**

30 Points 0.2500 EFTS

Performance work involving weekly individual lessons, performance classes and ensemble training in an approved instrument (or in voice) and the presentation of a public recital.

P: MUSA 242 with a C grade or higher, and at least 30 pts from MUSA 100, MUSA 101, MUSA 120, MUSA 121, MUSA 122, MUSA 125, MUSA 131, MUSA 200, MUSA 220, MUSA 221, MUSA 223,

MUSA 226, MUSA 250

R: MUSI 341

MUSA341-21S1 (A) Semester 1**MUSA 342 Performance Major 3B**

30 Points 0.2500 EFTS

Performance work involving weekly individual lessons, performance classes and ensemble training in an approved instrument (or in voice) and the presentation of a public recital.

P: MUSA 341

R: MUSI 341

MUSA342-21S1 (A) Semester 1**MUSA342-21S2 (A) Semester 2****MUSA 390 Chamber Choir 3**

15 Points 0.1250 EFTS

This course builds on MUSA 290 and develops highly sophisticated choral singing skills and performer discipline.

P: MUSA 290 and subject to approval of the Head of School.

R: MUSI 392

MUSA390-21W (C) Whole Year (S1 and S2)**MUSA 393 Ensemble 3**

15 Points 0.1250 EFTS

MUSA393 aims to provide significant performance and rehearsal experiences in one or more music ensemble(s) ranging from large, such as orchestra (UC-CYO) or UC gamelan ensemble, to small ensembles such as three-piece contemporary bands or chamber groups.

P: MUSA 291, MUSA 292, or MUSA 293.

R: MUSA 391, MUSA 392, MUSI 391, MUSI 398.

MUSA393-21W (C) Whole Year (S1 and S2)**MUSA 396 Music Internship**

30 Points 0.2500 EFTS

A significant music internship associated with a community or industry-focused project.

P: Any 60 points at 200 level from the Schedule V of the MusB, special application and interview and the permission of the Head of School.

R: MUSA 395

MUSA396-21A (C) Starts Anytime**MUSA 397 Collaborative Group Project**

15 Points 0.1250 EFTS

A supervised creative project involving collaboration with one or more musicians, and/or with other arts practitioner(s). The student may be involved as a performer, composer, improviser, producer, or similar musical activity.

P: Any 45 points at 200 level from MUSA, and permission from the Head of School.

MUSA397-21S2 (C) Semester 2**PACE 395 Internship**

30 Points 0.2500 EFTS

What can you do with your major? With your degree? The purpose of the internship course is to explore both the ideological and practical assumptions guiding this question. The course is designed to be a critical, theoretical and "real-world" examination of the practices and ideologies inherent in both community and business organisations. You will apply the analytical skills acquired through your major, and through class seminars and readings, to a project designed by a local company or community group. Please check out the website for further information and specific project descriptions: www.arts.canterbury.ac.nz/internships

P: 150 points, special application and interview, and permission of the Internship Director.

R: ARTS 395

EQ: ARTS 395

PACE395-20SU2 (C) Summer (Nov 20)**PACE395-21A (C) Starts Anytime**

PACE395-21S1 (C) Semester 1
PACE395-21S2 (C) Semester 2

Limited entry. See limitation of entry regulations. A student will be selected for a specific project. Only students accepted for projects will be allowed into the course. Please go to <http://www.arts.canterbury.ac.nz/internships> for more information.

Tāura | Postgraduate

Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.

MUSA 650 MA Dissertation

60 Points 0.5000 EFTS
 MA Dissertation

P: Subject to approval of the Head of Department.

MUSA650-21A (C) Starts Anytime
MUSA650-21S1 (C) Semester 1
MUSA650-21S2 (C) Semester 2

MUSI 457 Studies in Music History

30 Points 0.2500 EFTS

P: Subject to approval of the Head of School.

R: MUSI 412, MUSI 602

MUSI457-21W (C) Whole Year (S1 and S2)

MUSI 461 A Documentary Study of a Prescribed Topic

30 Points 0.2500 EFTS

P: Subject to approval of the Head of School.

R: MUSI 414, MUSI 607

MUSI461-21W (C) Whole Year (S1 and S2)

MUSI 466 Research Project

30 Points 0.2500 EFTS

P: Subject to approval of the Head of School.

MUSI466-21W (C) Whole Year (S1 and S2)

MUSI 471 Composition 4

60 Points 0.5000 EFTS

Compiling a portfolio of compositions (notated scores, together with some recordings)

P: MUSA 322 with a grade of B or higher, and approval of Head of School

R: MUSI 409, MUSI 420

MUSI471-21W (C) Whole Year (S1 and S2)

MUSI 473 Performance 4

60 Points 0.5000 EFTS

Advanced study in, and mastery of, the performance of an instrument or voice.

P: MUSA 342 or MUSI 341 with a grade of B+ or higher, and approval of Head of School

R: MUSI 441

MUSI473-21W (A) Whole Year (S1 and S2)

MUSI 474 Ensemble Performance

30 Points 0.2500 EFTS

Advanced study and participation in musical performance within an ensemble, either in live performance or in CD recordings.

P: MUSA 342 or MUSI 341 with a grade of B+ or higher, and approval of Head of School.

MUSI474-21W (A) Whole Year (S1 and S2)

MUSI 690 MA Thesis

120 Points 1.0000 EFTS

P: Subject to approval of the Head of School.

MUSI690-21A (C) Starts Anytime

Part-time enrolment (0.65 EFTS) is available on approval.

MUSI 692 MMus Performance

120 Points 1.0000 EFTS

Advanced performance on an instrument or voice. Either: two significant recitals (solo and/or ensemble) and programme notes. Or: one CD (45-50 mins) which may include existing compositions, originals and/or arrangements, together with supporting documentation.

P: MUSI 473 or equivalent, and approval of Head of Music

MUSI692-21A (C) Starts Anytime

MUSI 693 MMus Composition

120 Points 1.0000 EFTS

Production of a significant portfolio of compositions (notated and/or digital and/or performed live) together with supporting documentation

P: MUSI 471, or subject to approval of Head of School

MUSI693-21A (C) Starts Anytime

MUSI 795 Music DMA

120 Points 1.0000 EFTS

P: Subject to approval of the Head of School.

MUSI795-21A (C) Starts Anytime

Part-time enrolment (0.65 EFTS) is available on approval. *From 1 January 2008, international students who are residing in New Zealand on a NZ Immigration Study Visa pay the Domestic Fee for this course. International fees apply for all other courses.

MUSI 790 Music PhD

120 Points 1.0000 EFTS

P: Subject to approval of the Programme Coordinator.

MUSI790-21A (C) Starts Anytime

Part-time enrolment (0.65 EFTS) is available on approval. *From 1 January 2008, international students who are residing in New Zealand on a NZ Immigration Study Visa pay the Domestic Fee for this course. International fees apply for all other courses.

Natural Resources Engineering

Department of Civil and Natural Resources Engineering

ENCN 201 Communication Skills Portfolio 1

0 Points 0.0000 EFTS

Introduction to communication skills required by practicing professional engineers.

P: Entry to first professional year of CNRE.

ENCN201-21A (C) Starts Anytime

ENCN 213 Design Studio 1

15 Points 0.1250 EFTS

Loads and load paths in buildings and bridges. Design calculations for timber and steel structures. Engineering drawing. Construction and testing of simple structures.

P: Subject to approval of the Dean of Engineering and Forestry

R: ENCI 211

ENCN213-21S2 (C) Semester 2

ENCN 221 Engineering Materials

15 Points 0.1250 EFTS

Introduction to engineering materials. Materials science. Metals, granular materials, asphalt, concrete, masonry, timber, plastics/ceramics. Sustainability issues and material selection.

P: Subject to approval of the Dean of Engineering and Forestry

ENCN221-21S1 (C) Semester 1

ENCN 231 Solid Mechanics

15 Points 0.1250 EFTS

Introduction to solid and structural mechanics: analysis of statically determinate structures; stress and strain; behaviour of beams and columns; analysis of deformations; torsion.

P: Subject to approval of the Dean of Engineering and Forestry

R: ENCI 230, ENCI 234

ENCN231-21S1 (C) Semester 1

ENCN 242 Fluid Mechanics and Hydrology

15 Points 0.1250 EFTS

Fluid Properties. Hydrostatics. Mass, energy and momentum fluxes. Applications to hydraulic systems. Water resources and global climates. Stream and groundwater flow.

P: Subject to approval of the Dean of Engineering and Forestry

R: ENCI 241

ENCN242-21S2 (C) Semester 2

ENCN 253 Soil Mechanics

15 Points 0.1250 EFTS

Properties and behaviour of rocks. Formation, properties and classification of soils. Strength and stiffness of soils. Applications to slopes, retaining walls, and site characterisation.

P: Subject to approval of the Dean of Engineering and Forestry

R: ENCI 252, ENCI 271

ENCN253-21S2 (C) Semester 2

ENCN 261 Transport and Surveying

15 Points 0.1250 EFTS

Introduction to transportation engineering. Geometric design of roads. Surveying fundamentals. Surveying camp.

P: Subject to approval of the Dean of Engineering and Forestry

R: ENCI 262

ENCN261-21S1 (C) Semester 1**ENCN 281 Environmental Engineering**

15 Points 0.1250 EFTS

Water quality parameters; mass balances; kinetics; surface water quality modelling; ecological systems; treatment of water, wastewater, solid and hazardous wastes; air pollution.

P: Subject to approval of the Dean of Engineering and Forestry

R: ENNR 203, ENCI 383

ENCN281-21S2 (C) Semester 2**ENCN 301 Communication Skills Portfolio 2**

0 Points 0.0000 EFTS

Development of communication skills required by practicing professional engineers. Sketches, oral presentation, and various types of written reports.

P: ENCN 201

ENCN301-21A (C) Starts Anytime**ENCN 304 Deterministic Mathematical Methods**

15 Points 0.1250 EFTS

Analytical and numerical methods for engineering problems. Vector calculus. Systems of linear equations. Systems of ordinary differential equations. Partial differential equations.

P: EMTH 210

C: ENCN 305

R: ENCI 302

ENCN304-21S1 (C) Semester 1**ENCN 305 Programming, Statistics and Optimization**

15 Points 0.1250 EFTS

Computer programming. Descriptive statistics. Monte Carlo and Bootstrapping methods.

Design of experiments. Linear regression and generalized linear modelling. Optimization and linear programming.

P: EMTH 210

ENCN305-21S1 (C) Semester 1**ENCN 342 Hydraulics and Applied Hydrology**

15 Points 0.1250 EFTS

Open channel flow; pipe networks; scale and dimensional analysis; flow of surface and ground water; urban drainage; catchment hydrological modelling.

P: ENCN 242, EMTH 210

R: ENCI 341

EQ: ENCN 342

ENCN342-21S2 (C) Semester 2**ENCN 353 Geotechnical Engineering**

15 Points 0.1250 EFTS

Mohr's circle; time-dependent soil behaviour; settlement; capacity and failure of foundations; field investigations; slope stability; earth pressure theories and retaining structures.

P: ENCN 253

R: ENCI 351

ENCN353-21S1 (C) Semester 1**ENCN 371 Project and Infrastructure Management**

15 Points 0.1250 EFTS

Project and infrastructure asset management, procurement methods, estimating, finance and accounting, economic appraisal, uncertainty and decision-making.

R: ENCI 363, ENCI 403

ENCN371-21S2 (C) Semester 2**ENNR 320 Integrated Catchment Analysis**

15 Points 0.1250 EFTS

Integrated analysis of water, land, and ecology. GIS, spatial analysis, soils, vegetation, food/fibre production, environmental impact assessments, ecological engineering principles, catchment-level policy, systems analysis.

P: ENCN 242

R: ENNR 306

ENNR320-21S1 (C) Semester 1**ENNR 322 Ecological Engineering**

15 Points 0.1250 EFTS

Principles of ecological engineering, ecosystem biogeochemical dynamics, toxicology, stormwater and non-point source pollution control, sub-surface contaminant transport.

P: ENCN 242, ENCN 281

R: ENNR 305

ENNR322-21S2 (C) Semester 2**ENCN 401 Engineering in Developing Communities**

15 Points 0.1250 EFTS

Water supply and sanitation (solid and liquid waste management) issues in developing communities, agricultural issues and impacts of land-use changes, humanitarian aid during natural disaster relief, engineering in a cultural and sustainable context using appropriate technology.

P: EMTH 210, ENCI 199, ENCN 201, ENCN 213, ENCN 221, ENCN 231, ENCN 242, ENCN 253, ENCN 261, ENCN 281

R: ENNR 451

ENCN401-21S1 (C) Semester 1**ENCN 412 Traffic Engineering**

15 Points 0.1250 EFTS

Transport planning. Traffic flow theory. Roadway and intersection design. Road safety. Traffic surveys. Transport project evaluation. Environmental impacts. Traffic management.

P: EMTH 210, ENCI 199, ENCN 201, ENCN 213, ENCN 221, ENCN 231, ENCN 242, ENCN 253, ENCN 261, ENCN 281

R: ENCI 412

ENCN412-21S1 (C) Semester 1**ENCN 445 Fluid Mechanics of Environmental Systems**

15 Points 0.1250 EFTS

Description and modelling of turbulence. Near and far field mixing behaviour. Dispersion in rivers, jets, plumes. Outfall design. Introduction to wave theory, including wave dispersion and forces.

P: EMTH 210, ENCI 199, ENCN 201, ENCN 213, ENCN 221, ENCN 231, ENCN 242, ENCN 253, ENCN 261, ENCN 281, ENCN 342, ENCN 304

R: ENCI 445

ENCN445-21S1 (C) Semester 1**ENCN 452 Advanced Geotechnical Engineering**

15 Points 0.1250 EFTS

Stress-strain behaviour of soils. Critical-state soil mechanics. Approximations and limitations for geotechnical analyses. Piles under axial and lateral loading. Shallow foundations.

P: EMTH 210, ENCI 199, ENCN 201, ENCN 213, ENCN 221, ENCN 231, ENCN 242, ENCN 253, ENCN 261, ENCN 281, ENCN 353

R: ENCI 452

ENCN452-21S1 (C) Semester 1**ENCN 454 Introduction to Geotechnical Earthquake Engineering**

15 Points 0.1250 EFTS

Seismic behaviour of retaining walls, shallow and deep foundations, embankments, and slopes. Liquefaction. Case studies, design applications, and advanced methods of analysis.

P: EMTH 210, ENCI 199, ENCN 201, ENCN 213, ENCN 221, ENCN 231, ENCN 242, ENCN 253, ENCN 261, ENCN 281, ENCN 353

R: ENCI 620

ENCN454-21S1 (C) Semester 1**ENCN 481 Water and Wastewater Treatment Systems**

15 Points 0.1250 EFTS

Project-based design for treatment of contaminated media. Could include treatment of drinking water, wastewaters, landfill design, or remediation of contaminated soils. Laboratories, field trips.

P: EMTH 210, ENCI 199, ENCN 201, ENCN 213, ENCN 221, ENCN 231, ENCN 242, ENCN 253, ENCN 261, ENCN 281

R: ENCI 481, ENCI 482

ENCN481-21S1 (C) Semester 1**ENCN 493 Project**

30 Points 0.2500 EFTS

Engineering Research Project

P: EMTH 210, ENCI 199, ENCN 201, ENCN 213, ENCN 221, ENCN 231, ENCN 242, ENCN 253, ENCN 261, ENCN 281, ENCN 301

R: ENCI 493, ENCI 494, ENCN 494

ENCN493-21X (C) 22 Feb 2021 - 21 Nov 2021**ENCN493-21X1 (C)**

ENGR 403 Fire Engineering

15 Points 0.1250 EFTS

Introduction to Fire Engineering. Fire ignition, flame spread and flame height. The performance of construction materials and fire resistance. People movement and behaviour during fires. Fire detection, suppression and smoke extract systems. Wildland fires, fire investigation, fire-fighting.

P: Subject to approval of the Director of Studies

ENGR403-21SU1 (C) Summer (Jan 21)**ENGR403-21S1 (C) Semester 1****ENNR 405 Ecologically Engineered Designs**

15 Points 0.1250 EFTS

Resources required for agriculture, horticulture, aquaculture. Best management practices for stormwater and agricultural runoff. Engineered wetlands. Ecological economics and restoration.

P: EMTH 210, ENCI 199, ENCN 201, ENCN 213, ENCN 221, ENCN 231, ENCN 242, ENCN 253, ENCN 261, ENCN 281, ENNR 320, ENNR 322

ENNR405-21S1 (C) Semester 1**ENNR 413 Integrated Natural Resources Engineering Design**

30 Points 0.2500 EFTS

Integrated design of complex Natural Resources engineering projects; professional and teamwork analysis; economic, environmental, and bicultural issues; life-long learning.

P: EMTH 210, ENCI 199, ENCN 201, ENCN 213, ENCN 221, ENCN 231, ENCN 242, ENCN 253, ENCN 261, ENCN 281, ENCN 301, ENCN 371, ENCN 375

R: ENCI 313, ENNR 313

EQ: ENCI 413

ENNR413-21S2 (C) Semester 2**ENNR 422 Water Resources and Irrigation Engineering**

15 Points 0.1250 EFTS

Management science techniques in water resources. Water resource systems, dams and reservoirs, river engineering, restoration and modelling.

P: ENNR 320, ENCN 342 or Subject to approval of the Director of Studies

ENNR422-21S1 (C) Semester 1**ENNR 423 Sustainable Energy Systems**

15 Points 0.1250 EFTS

Energy systems analysis, modelling, and design. Solar, wind, hydro, biomass and geothermal resources. Demand management. Low-energy buildings. Global and local perspectives.

P: EMTH 210, ENCI 199, ENCN 201, ENCN 213, ENCN 221, ENCN 231, ENCN 242, ENCN 253, ENCN 261, ENCN 281, ENCN 375

ENNR423-21S1 (C) Semester 1

Pacific Studies

*Macmillan Brown Centre for Pacific Studies***PACS 102 Aotearoa: Introduction to Traditional Māori Society**

15 Points 0.1250 EFTS

A comprehensive introduction to: the settlement of the Pacific, Polynesian navigation, star paths, renaissance of voyaging. Māori astronomy, new year stars. Creation myths, Skyfather, Earthmother, gods, origins of life and death. Demigods - Maui, Tawhaki, Whaitiri. Oral traditions, first arrivals, canoe ancestors, explorers, romance, sexual imagery, war. Spiritual beliefs, mana, tapu, makutu black magic witchcraft. Māori geography of New Zealand, greenstone trails, forest lore, pa and settlements, meeting houses, sacred rituals and protocols. Social structure, tribal organisation, leadership, marriage, sex, death. Fortifications, warfare, weapons, canoes, cannibalism. Wood, bone, greenstone carving, tattoo and moko. Performing arts, haka, contemporary themes. Ngāi Tahu traditions

R: MAOR 107

EQ: MAOR 107

PACS102-21S1 (C) Semester 1**PACS 303 International Politics: New Zealand Foreign Policy**

30 Points 0.2500 EFTS

This course analyses New Zealand's defence and foreign policy as it enters the century of the Pacific.

P: Any 30 points at 200 level from PACS or POLS, or any 60 points at 200 level from the Schedule V of the BA.

R: POLS 308

EQ: POLS 308

PACS303-21S1 (C) Semester 1**PACE 395 Internship**

30 Points 0.2500 EFTS

What can you do with your major? With your degree? The purpose of the internship course is to explore both the ideological and practical assumptions guiding this question. The course is designed to be a critical, theoretical and "real-world" examination of the practices and ideologies inherent in both community and business organisations. You will apply the analytical skills acquired through your major, and through class seminars and readings, to a project designed by a local company or community group. Please check out the website for further information and specific project descriptions: www.arts.canterbury.ac.nz/internships

P: 150 points, special application and interview, and permission of the Internship Director.

R: ARTS 395

EQ: ARTS 395

PACE395-20SU2 (C) Summer (Nov 20)**PACE395-21A (C) Starts Anytime****PACE395-21S1 (C) Semester 1****PACE395-21S2 (C) Semester 2**

Limited entry. See limitation of entry regulations. A student will be selected for a specific project. Only students accepted for projects will be allowed into the course. Please go to <http://www.arts.canterbury.ac.nz/internships> for more information.

Tāura | Postgraduate

Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.

PACS 690 MA Thesis

120 Points 1.0000 EFTS

P: Subject to approval of the Head of Department.

PACS690-21A (C) Starts Anytime

Part-time enrolment (0.65 EFTS) is available on approval.

PACS 790 Pacific Studies PhD

120 Points 1.0000 EFTS

P: Subject to approval of the Head of Department.

PACS790-21A (C) Starts Anytime

Part-time enrolment (0.65 EFTS) is available on approval. *From 1 January 2008, international students who are residing in New Zealand on a NZ Immigration Study Visa pay the Domestic Fee for this course. International fees apply for all other courses.

Painting

*School of Fine Arts***PAIN 211 Painting 2A**

45 Points 0.3750 EFTS

Students will be introduced to developing technical competence in, and broad operational of, theoretical knowledge within the specialised studio discipline. Projects relating to the conventions and techniques of Painting practice, participation in group meetings, critiques, reading groups and critical reflections, documentation of all work.

P: FINA 103, or subject to approval of the Head of the School of Fine Arts. Entry to this course is limited.

PAIN211-21S1 (C) Semester 1**PAIN 212 Painting 2B**

45 Points 0.3750 EFTS

Students will continue the development of technical competence in, and broad operational of, theoretical knowledge within the specialised studio discipline. Projects relating to the conventions and techniques of Painting practice, participation in group meetings, critiques, reading groups and critical reflections, documentation of all work.

P: PAIN 211, or subject to approval of the Head of the School of Fine Arts. Entry to this course is limited.

PAIN212-21S2 (C) Semester 2**PAIN 311 Painting 3**

90 Points 0.7500 EFTS

P: PAIN 212

PAIN311-21W (C) Whole Year (S1 and S2)**PAIN 411 Painting 4**

90 Points 0.7500 EFTS

P: PAIN 311

PAIN411-21W (C) Whole Year (S1 and S2)

Tāura | Postgraduate

Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.

PAIN 601 Painting MFA
120 Points 1.0000 EFTS
P: Subject to approval of the Head of School.
PAIN601-21A (C) Starts Anytime

Philosophy

School of Humanities and Creative Arts

PHIL 110 Science: Good, Bad, and Bogus
15 Points 0.1250 EFTS
This course is a critical thinker's toolkit. It will teach you 20 principles you can use to tell science from pseudo-science, truth from falsehood, logic from rhetoric, sound reasoning from wishful thinking, effective medicine from quackery, and good evidence from lies, fraud and fakery. The critical thinking skills you learn in this course will be vital if you go on to do more philosophy. They are also readily applicable to other disciplines, and should help you steer clear of scam-artists, charlatans, confidence-tricksters and get-rich-quick-schemes in the world outside of academia. Topics covered include the fallibility of the senses, the fallibility of memory, the placebo effect, the tricks of the cold reader's trade, confirmation bias, the Barnum effect, relativism, mind viruses, the basics of logic, formal and informal fallacies, and the scientific evaluation of competing hypotheses.

R: HAPS 110

PHIL110-21S1 (D) Semester 1
PHIL110-21S1 (C) Semester 1

PHIL 132 God, Mind, and Freedom
15 Points 0.1250 EFTS
If God created the universe, who created God? Are the colours you see inside your head or outside? Could a computer be conscious? You cannot change the past - why do you think you can change the future? This course is a beginner's guide to Philosophy. Learn to question assumptions and think outside the box. There are no prerequisites for this course - all welcome.

R: PHIL 101

PHIL132-21S2 (C) Semester 2

PHIL 133 Philosophy and Human Nature
15 Points 0.1250 EFTS
The human record is full of contradictions. We are capable all at once of selfless love and murderous depravity; of sublime rational insight and base stupidity; of soul-baring honesty and habitual duplicity; of principled rebellion and obsequious deference to authority; of generosity and jealousy. What, then, is our true nature? Are we rational creatures or are we enslaved by our passions? Are we moral creatures or are we fundamentally selfish? Can we improve the human situation either individually or collectively? Does it all depend on our evolutionary history? This course is an introduction to Western philosophy through the ideas of Plato, Aristotle, Hobbes, Hume, Kant, Marx, Nietzsche, Darwin, and other influential thinkers as they puzzle over the riddles of human nature.

PHIL133-21S2 (C) Semester 2

PHIL 136 Ethics Today
15 Points 0.1250 EFTS
PHIL136-20SU2 (D) Summer (Nov 20)
PHIL136-20SU2 (C) Summer (Nov 20)

PHIL 138 Logic and Critical Thinking
15 Points 0.1250 EFTS
Thinking rationally involves many skills. This course will help students acquire and develop those skills.

R: PHIL 132 (prior to 2006), MATH 130, PHIL 134/MATH 134

PHIL138-21SU1 (D) Summer (Jan 21)
PHIL138-21SU1 (C) Summer (Jan 21)

PHIL 139 Ethics, Politics and Justice
15 Points 0.1250 EFTS
How we should live our lives is the most important question of all. What makes our actions right or wrong? Is it our culture, our emotions, facts about the world, or God's commands? Are pleasure and happiness all that really matters? What should we do when justice and freedom conflict with happiness or with each other? Should we always obey the law? Is taxation legalised theft? This course introduces students to moral and political philosophy by examining ideas and arguments about how we should live our personal, social and political lives.

PHIL139-21S2 (C) Semester 2
PHIL139-21S2 (D) Semester 2

PHIL 203 Dinosaurs, Quarks and Quasars: The Philosophy of Science
15 Points 0.1250 EFTS
Science studies the world, but what discipline studies science itself -- what it is, how it works, and why it works so well? Answer: the philosophy of science. Questions tackled in this course include: how do scientists develop theories, test them, and adjudicate between rival explanations of natural phenomena? Does the careful application of the scientific method lead to truth and certainty? Do unobservable entities, like quarks, really exist, or are they merely useful fictions? And should scientists try to show their theories are false instead of trying to show they are true? The course will be of interest to anyone fascinated by science, its history, its aims, and its methods, and will be value to scientists-in-training in providing a broad perspective on the extraordinary philosophical puzzles and perplexities hovering over all scientific inquiry.

P: Any 15 points at 100 level in PHIL, or any 60 points at 100 level from the Schedule V of the BA or the BSc.

R: PHIL 223, PHIL 303

PHIL203-21S1 (C) Semester 1
PHIL203-21S1 (D) Semester 1

PHIL 208 The Brain Gym: An Introduction to Logic
15 Points 0.1250 EFTS
An introduction to logical reasoning, critical analysis, and the art of proof.

P: Any 15 points at 100 level in PHIL, COSC, LING, MATH, or from the BE(Hons), or any 60 points at 100 level from any subject.

R: PHIL 225, PHIL 246, PHIL 346, PHIL 308, MATH 208, MATH 308

PHIL208-21S1 (C) Semester 1

PHIL 229 Philosophy of Religion: Rationality, Science, and the God Hypothesis

15 Points 0.1250 EFTS

Why does the universe exist, rather than nothing at all? Does life imply a designer? Can we show by pure logic that a supreme being exists? Is a person a non-physical soul or only a neural net encased in a skull? Can I survive my death or is belief in an afterlife a trick of evolution? Isn't all the suffering in the world evidence against the hypothesis of a benevolent God? Can human beings tell what is morally right and wrong, or do we need a 'God's-eye-view'? Is science compatible with religion? Is there one and only one true religion? What is 'faith' and what is 'reason' - and who decides? This course presupposes no prior knowledge of the philosophy of religion; it is aimed at students from a wide range of backgrounds, as well as philosophy majors.

P: Any 15 points at 100 level in PHIL, or any 60 points at 100 level from the Schedule V of the BA or the BSc.

R: RELS 210, PHIL 318

PHIL229-21S2 (C) Semester 2

PHIL 233 Epistemology and Metaphysics
15 Points 0.1250 EFTS

This course is an introduction to selected topics in the theory of knowledge and of reality. For example: What is a physical object? Are you the same physical object now that you were 10 years ago? What makes the black squiggles you're now reading mean something? Are meanings ideas? Do deep metaphysical statements, such as 'I am the only conscious being in the universe' or 'Everything is fated', really say anything? Do males and females have different ways of knowing? What is time? Do humans have free will? Is cause-and-effect real, or just a way of looking at things? This course presupposes no prior knowledge of philosophy; it is aimed at students from a wide range of backgrounds, as well as philosophy majors.

P: Any 15 points at 100 level in PHIL, or any 60 points at 100 level from the Schedule V of the BA or the BSc.

PHIL233-21S2 (C) Semester 2
PHIL233-21S2 (D) Semester 2

PHIL 236 Ethics
15 Points 0.1250 EFTS

In this course, we look at concepts and theories in normative ethics and metaethics. Normative ethics deals with the foundations of moral theory. What determines whether an action is right or wrong, good or bad? What principles should we live by? Utilitarianism, deontology and virtue ethics provide three influential answers. Part I of the course studies these theories in detail, considering the ideas of Mill, Kant and Aristotle along the way. Metaethics deals with second-order questions about ethical thought and talk. Are there moral facts and moral truths? Could moral judgements be objectively true? What is the relation between moral facts and scientific or natural facts? How, if at all, can we acquire moral knowledge? What role do the emotions play in moral judgement? Part II of the course focuses on these and similar questions.

P: Any 15 points at 100 level from PHIL, or any 60 points at 100 level from the Schedule V of the BA.

R: PHIL 321

PHIL236-21S1 (C) Semester 1

PHIL 240 Bioethics: Life, Death, and Medicine
15 Points 0.1250 EFTS

Bioethics is the study of ethical problems in healthcare, research, technology and the environment. Bioethical problems arise every day, affecting societies, people and non-human animals. This course covers a wide range of issues, including: research on human and non-human animals; reproductive technologies, such as surrogacy and genetic testing; the use of data to monitor and control human actions; conflicts between privacy and autonomy and the public good, and decisions about protecting, killing and letting die, including healthcare, abortion, and euthanasia. The course includes an introduction to ethical values and principles,

ways of dealing with moral disagreements, and reflection on what it means for something to be worth moral consideration.

P: Any 15 points at 100 level in PHIL, HSRV, HLTH, LAWS, or POLS, or any 60 points at 100 level from the Schedule V of the BA or the BSc.

R: PHIL 324, POLS 225

PHIL240-21S2 (C) Semester 2

PHIL240-21S2 (D) Semester 2

PHIL 249 Environmental Ethics

15 Points 0.1250 EFTS

Humanity faces threatening environmental problems, not least climate change. Can science, technology and free markets provide the solutions - or must we reconsider our values and priorities? Is nature inherently valuable? What should be protected for future generations? Do we have moral duties to non-human animals, including endangered species? PHIL249 examines recent philosophical responses to these and other questions in environmental ethics. This course is for students in Arts, Science, Engineering, Business and Law; no background in philosophy is required.

P: Any 15 points at 100 level in PHIL, or any 60 points at 100 level from the Schedule V of the BA or the BSc.

RP: 15 points of 100 level Philosophy, or 30 points or more of humanities, social science, science, engineering, economics, or commerce studies and an interest in reflective critical debate.

PHIL249-21SU1 (D) Summer (Jan 21)

PHIL249-21SU1 (C) Summer (Jan 21)

PHIL 250 Turing: From the Computer Revolution to the Philosophy of AI

15 Points 0.1250 EFTS

This course tells you (nearly) everything you ever wanted to know about Alan Turing, the birth of the computer, and the Philosophy of Artificial Intelligence. It is a problem-based course, equally suitable for Arts, Science, Engineering, and Law students.

P: Any 15 points at 100 level in PHIL, COSC, LING, MATH, or PSYC, or any 60 points at 100 level from the Schedule V of the BA or the BSc.

R: COSC 260

EQ: COSC 260

PHIL250-21S2 (C) Semester 2

PHIL 303 Quarks, Quasars and Dinosaurs: The Philosophy of Science

15 Points 0.1250 EFTS

This course examines a number of ground breaking discoveries, breakthroughs and conceptual revolutions in the history of science, with an eye to the lessons they hold about what Science is and how it works. Fundamental questions the course considers are: How do scientists develop theories, test them, and adjudicate between rival explanations of natural phenomena? What is the scientific method? Why does this method yield such uncannily accurate predictions about future events? By what criteria can genuine sciences, like Physics, Chemistry and Biology, be distinguished from pseudosciences like Astrology and Homeopathy? Is Science progressing slowly but steadily towards a grand, unified Theory of Everything, or is the idea of scientific progress just a myth? Do the unobservable entities that scientists postulate - quarks, gluons, and their ilk - really exist, or are they merely predictively useful fictions? Should scientists try to verify their theories, or falsify them? What is scientific objectivity, and is it attainable? The course will be of interest to anyone fascinated by Science, its history, its aims, and its methods. It is intended to be especially valuable to scientists-in-training, in providing a broad perspective of the philosophical issues that hover over all scientific inquiry.

P: Any 30 points at 200 level in PHIL, or any 60 points at 200 level from the Schedule V of the BA or BSc.

R: PHIL 203

PHIL303-21S1 (C) Semester 1

PHIL303-21S1 (D) Semester 1

PHIL 305 Paradoxes

30 Points 0.2500 EFTS

This course surveys a wide range of paradoxes and bizarre brain-twisters drawn from all corners of philosophy.

P: Any 30 points at 200 level in PHIL, COSC, or MATH, or any 60 points at 200 level from the Schedule V of the BA or BSc.

R: PHIL 494, PHIL 444

PHIL305-21S2 (C) Semester 2

PHIL 308 The Brain Gym: An Introduction to Logic

15 Points 0.1250 EFTS

An introduction to logical reasoning, critical analysis, and the art of proof.

P: Any 30 points at 200 level in PHIL, COSC, LING, MATH or from the BE(Hons), or any 60 points at 200 level from the Schedule V of the BA or BSc.

R: PHIL 225, PHIL 246, PHIL 346, PHIL 208, MATH 208, MATH 308

PHIL308-21S1 (C) Semester 1

PHIL 310 History of Philosophy

30 Points 0.2500 EFTS

This course introduces you to the philosophy of the early modern period. We shall pay particular attention to the epistemological and metaphysical questions addressed by Descartes in his *Meditations* and by Hume in Book 1 of his *A Treatise of Human Nature*. We also study Hume's moral theory in Bk. III of the *Treatise*, Locke's epistemology and Berkeley's metaphysics. Topics covered include rationalism and empiricism, dreaming, scepticism, proofs of the existence of God, mind-body dualism, idealism, the nature of self, personal identity, causation, reason and the passions. Is knowledge based on reason or experience? Can I be sure that I'm not dreaming? Can I be sure of anything? What, in any case, is this 'I'? What is the relationship between mind and body? What is it to remain the same person over time? Does the external world exist and, if so, what is its nature? Can 'ought' be derived from 'is'? Is morality based on reason or the passions?

P: Any 30 points at 200 level from PHIL, or any 60 points at 200 level from the Schedule V of the BA.

PHIL310-21S2 (D) Semester 2

PHIL310-21S2 (C) Semester 2

PHIL 311 Meaning, Mind, and the Nature of Philosophy

30 Points 0.2500 EFTS

Do we think in words? If I say 'I'm in pain', do you really know what I mean? How can we talk about what doesn't exist - tomorrow, Harry Potter, or the possible world where you win \$1 million on Lotto? Can machines have concepts? Could you have been born in a different hemisphere, with different parents and the opposite sex? Why does every attempt to solve a philosophical problem simply raise more problems, sometimes even worse ones? We look at central philosophical problems through the eyes of some of the greatest and most challenging philosophers of the 20th and 21st centuries.

P: Any 30 points at 200 level from PHIL, or any 60 points at 200 level from the Schedule V of the BA or the BSc.

R: PHIL 464, PHIL 497

PHIL311-21S1 (C) Semester 1

PHIL311-21S1 (D) Semester 1

PHIL 318 Philosophy of Religion: Rationality, Science, and the God Hypothesis

30 Points 0.2500 EFTS

Why does the universe exist, rather than nothing at all? Does life imply a designer? Can we show by pure logic that a supreme being exists? Is a person a non-physical soul or only a neural net encased in a skull? Can I survive my death or is belief in an afterlife a trick of evolution? Isn't all the suffering in the world evidence against the hypothesis of a benevolent God? Can human beings tell what is morally right and wrong, or do we need a 'God's-eye-view'? Is science compatible with religion? Is there one and only one true religion? What is 'faith' and what is 'reason' - and who decides?

P: Any 30 points at 200 level from PHIL, or any 60 points at 200 level from the Schedule V of the BA or the BSc.

R: RELS 210 and PHIL 229

PHIL318-21S2 (C) Semester 2

PHIL 321 Ethics

15 Points 0.1250 EFTS

This course looks at concepts and theories in normative ethics and meta-ethics. Normative ethics deals with the foundations of moral theory. What determines whether an action is right or wrong, good or bad? What principles should we live by? Utilitarianism, deontology and virtue ethics provide three influential answers. Part I of the course studies these theories in detail, considering the ideas of Mill, Kant and Aristotle along the way. Meta-ethics deals with second-order questions about ethical thought and talk. Are there moral facts and moral truths? Could moral judgements be objectively true? What is the relation between moral facts and scientific or natural facts? How, if at all, can we acquire moral knowledge? What role do the emotions play in moral judgement? Part II of the course focuses on these and similar questions.

P: Any 30 points at 200 level from PHIL, or any 60 points at 200 level from the Schedule V of the BA.

R: PHIL 236

PHIL321-21S1 (C) Semester 1

PHIL 324 Bioethics: Life, Death, and Medicine

15 Points 0.1250 EFTS

Bioethics is the study of ethical problems in healthcare, research, technology and the environment. Bioethical problems arise every day, affecting societies, people and non-human animals. This course covers a wide range of issues, including: research on human and non-human animals; reproductive technologies, such as surrogacy and genetic testing; the use of data to monitor and control human actions; conflicts between privacy and autonomy and the public good, and decisions about protecting, killing and letting die, including healthcare, abortion, and euthanasia. The course includes an introduction to ethical values and principles, ways of dealing with moral disagreements, and reflection on what it means for something to be worth moral consideration.

P: Any 30 points at 200 level in PHIL, LAWS, HLTH, or any 60 points at 200 level from the Schedule V of the BA.

R: PHIL 240, POLS 225

RP: PHIL 139 or PHIL 236

PHIL324-21S2 (C) Semester 2

PHIL324-21S2 (D) Semester 2

PACE 395 Internship

30 Points 0.2500 EFTS

What can you do with your major? With your degree? The purpose of the internship course is to explore both the ideological and practical assumptions guiding this question. The course is designed to be a critical, theoretical and "real-world" examination of the practices and ideologies inherent in both community and business organisations. You will apply the analytical skills acquired through your major, and through class seminars and readings, to a project designed by a local company or community group. Please check out the website for further information and specific project descriptions: www.arts.canterbury.ac.nz/internships

P: 150 points, special application and interview, and permission of the Internship Director.

R: ARTS 395

EQ: ARTS 395

PACE395-20SU2 (C) Summer (Nov 20)

PACE395-21A (C) Starts Anytime

PACE395-21S1 (C) Semester 1

PACE395-21S2 (C) Semester 2

Limited entry. See limitation of entry regulations. A student will be selected for a specific project.

Only students accepted for projects will be allowed into the course. Please go to <http://www.arts.canterbury.ac.nz/internships> for more information.

Tāura | Postgraduate

Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.

PHIL 479 Independent Course of Study

30 Points 0.2500 EFTS

P: Subject to approval of the Head of Department.

PHIL479-21S2 (C) Semester 2

PHIL 480 Research Essay

30 Points 0.2500 EFTS

P: Subject to approval of the Head of Department.

R: PHIL 481; PHIL 485

PHIL480-21A (C) Starts Anytime

PHIL480-21W (C) Whole Year (S1 and S2)

PHIL 482 Research Essay A

15 Points 0.1250 EFTS

P: Subject to approval of the Head of Department.

R: PHIL 481; PHIL 485; PHIL 480

PHIL482-21S2 (C) Semester 2

PHIL 483 Research Essay B

15 Points 0.1250 EFTS

P: Subject to approval of the Head of Department.

R: PHIL 481; PHIL 485; PHIL 480

PHIL483-21S1 (C) Semester 1

PHIL 494 Philosophical Logic

30 Points 0.2500 EFTS

An introduction to central topics in philosophical logic. The course includes an introduction to the work of New Zealand philosopher Arthur Prior.

P: Subject to approval of the Head of Department.

R: PHIL 305

PHIL494-21S2 (C) Semester 2

PHIL 496 Cognitive Science

30 Points 0.2500 EFTS

This course addresses philosophical themes in cognitive science. Cognitive scientists are philosophers, psychologists, neuroscientists, and computer scientists along with researchers from other disciplines. Questions we discuss are drawn from across these diverse areas. The central focus of this course consists of the philosophical concerns and challenges presented by the discoveries and methods of investigation used in cognitive science.

P: Subject to approval of the Head of Department.

PHIL496-21T4 (C) 06 Sep 2021 - 07 Nov 2021

PHIL 497 Meaning, Mind, and the Nature of Philosophy

30 Points 0.2500 EFTS

Do we think in words? If I say, 'I'm in pain', do you really know what I mean? How can we talk about what doesn't exist - tomorrow, Harry Potter, or the possible world where you win \$1 million on Lotto? Can machines have concepts? Could you have been born in a different hemisphere, with different parents and the opposite sex? Why does every attempt to solve a philosophical problem simply raise more problems, sometimes even worse ones? We look at central philosophical problems through the eyes of some of the greatest and most challenging philosophers of the 20th and 21st centuries.

P: Subject to approval of the Head of Department.

R: PHIL 311

PHIL497-21S1 (C) Semester 1

PHIL 498 History of Philosophy

30 Points 0.2500 EFTS

This course introduces you to the philosophy of the early modern period. We shall pay particular attention to the epistemological and metaphysical questions addressed by Descartes in his *Meditations* and by Hume in Book 1 of his *A Treatise of Human Nature*. We also study Hume's moral theory, Locke's epistemology and Berkeley's metaphysics. Topics covered include rationalism and empiricism, dreaming, scepticism, proofs of the existence of God, mind-body dualism, idealism, the nature of self, personal identity, causation, reason and the passions. Is knowledge based on reason or experience? Can I be sure that I'm not dreaming? Can I be sure of anything? When, in any case, is the 'I'? What is the relationship between mind and body? What is it to remain the same person over time? Does the external world exist, and, if so, what is it by nature? Can 'ought' be derived from 'is'? Is morality based on reason of the passions?

P: Subject to approval of the Head of Department.

R: PHIL 310

PHIL498-21S2 (C) Semester 2

PHIL 499 Moral Psychology

30 Points 0.2500 EFTS

In this course, moral judgement and behaviour is studied by experimental methods. Topics will include methods and approaches, tolerances of political differences, reasoning about morality, character and reputation, morality in the economy, judging intentions, free will, evolution and cultural approaches, and moral diversity.

P: Subject to approval of the Head of Department.

R: PSYC 468

PHIL499-21S1 (C) Semester 1

PHIL 660 MA Dissertation

60 Points 0.5000 EFTS

MA Dissertation

P: Subject to approval of the Head of Department.

PHIL660-21A (C) Starts Anytime

PHIL660-21S1 (C) Semester 1

PHIL660-21S2 (C) Semester 2

PHIL 690 MA Thesis

120 Points 1.0000 EFTS

P: Subject to approval of the Head of Department.

PHIL690-21A (C) Starts Anytime

Part-time enrolment (0.65 EFTS) is available on approval.

PHIL 695 MSc Thesis

120 Points 1.0000 EFTS

P: Subject to approval of the Programme Coordinator for Philosophy.

PHIL695-21A (C) Starts Anytime

PHIL 790 Philosophy PhD

120 Points 1.0000 EFTS

P: Subject to approval of the Programme Coordinator for Philosophy.

PHIL790-21A (C) Starts Anytime

Part-time enrolment (0.65 EFTS) is available on approval. *From 1 January 2008, international students who are residing in New Zealand on a NZ Immigration Study Visa pay the Domestic Fee for this course. International fees apply for all other courses.

Photography**School of Fine Arts****PHOT 211 Photography 2A**

45 Points 0.3750 EFTS

Students will be introduced to developing technical competence in, and broad operational of, theoretical knowledge within the specialised studio discipline. Projects relating to the conventions and techniques of Photography practice, participation in group meetings, critiques, reading groups and critical reflections, documentation of all work.

P: FINA 103, or subject to approval of the Head of the School of Fine Arts. Entry to this course is limited.

PHOT211-21S1 (C) Semester 1

PHOT 212 Photography 2B

45 Points 0.3750 EFTS

Students will continue the development of technical competence in, and broad operational of, theoretical knowledge within the specialised studio discipline. Projects relating to the conventions and techniques of Photography practice, participation in group meetings, critiques, reading groups and critical reflections, documentation of all work.

P: PHOT 211, or subject to approval of the Head of the School of Fine Arts. Entry to this course is limited.

PHOT212-21S2 (C) Semester 2**PHOT 311 Photography 3**

90 Points 0.7500 EFTS

P: PHOT 212

PHOT311-21W (C) Whole Year (S1 and S2)**PHOT 411 Photography 4**

90 Points 0.7500 EFTS

P: PHOT 311

PHOT411-21W (C) Whole Year (S1 and S2)**Tāura | Postgraduate**

Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.

PHOT 601 Photography

120 Points 1.0000 EFTS

P: Subject to approval of the Head of School.

PHOT601-21A (C) Starts Anytime**Physical Education****School of Health Sciences****Physics****School of Physical and Chemical Sciences****PHYS 101 Engineering Physics A: Mechanics, Waves, Electromagnetism and Thermal Physics**

15 Points 0.1250 EFTS

This is a required course for all Engineering Programmes as well as Physics and Astronomy degrees. PHYS101 builds on NCEA level 3 physics to develop Mechanics, Conservation Laws, Fluids, Waves, Thermal Physics, and Electromagnetism into an essential foundation for science and technology understanding.

P: 1) a) PHYS 111 or NCEA 14 credits (18 credits strongly recommended) at level 3 Physics, and b) MATH 101 or 14 Credits (18 credits strongly recommended) at level 3 Mathematics (including the standards 'Apply differentiation methods in solving problems (91578)' and 'Apply integration methods in solving problems(91579)', or 2) Cambridge: D at A level or an A at AS level in both Physics and Mathematics, or 3) IB: 4 at HL or 6 at SL in both Physics and Mathematics, or 4) approval of the Head of Department based on alternative prior learning.

R: PHYS 113, PHYS 112

EQ: PHYS 113

PHYS101-21S1 (C) Semester 1**PHYS101-21S2 (C) Semester 2****PHYS 102 Engineering Physics B: Modern Physics and Electromagnetism (2)**

15 Points 0.1250 EFTS

An essential course for students advancing in physical sciences and engineering who need a good understanding of electromagnetism and concepts of modern physics. The first section introduces aspects of modern physics such as quantum effects in atoms and materials, radioactivity and nuclear processes. The second section covers the E&M necessary to understand basic circuit theory, magnetic field concepts and finally applications such as power technology and electronics.

P: PHYS 101. These prerequisites may be replaced by other background as approved by Head of Department

R: PHYS 114, PHYS 115

EQ: PHYS 114

PHYS102-20SU2 (C) Summer (Nov 20)**PHYS102-21S2 (C) Semester 2****PHYS 111 Introductory Physics for Physical Sciences and Engineering**

15 Points 0.1250 EFTS

Classical dynamics, oscillations, temperature and heat, D.C. circuits, geometrical optics and interference, nuclear physics.

R: Students who have been credited with any of PHYS 101, PHYS 102, PHYS 113 or PHYS 114 cannot subsequently be credited with PHYS 111.

PHYS111-21S1 (C) Semester 1**PHYS111-21S2 (C) Semester 2****PHYS 203 Relativistic and Quantum Physics**

15 Points 0.1250 EFTS

Introduction to relativistic mechanics, including space-time transformations, dynamics and collisions of relativistic particles. Introduction to quantum physics, bringing out its applications, including wave-particle duality, one dimensional barriers and wells, electron spin, electron configuration of atoms, lasers, semiconductors and quantum dots.

P: (1) PHYS 102 or (PHYS 101 and CHEM 211); (2) MATH 102 or EMTH 118. These prerequisites may be replaced by a high level of achievement in level 3 NCEA Physics and Mathematics with Calculus or other background approved by the Head of Department.

R: PHYS 222

RP: MATH 103 or EMTH 119.

PHYS203-21S2 (C) Semester 2**PHYS 205 Waves, Optics and Mechanics**

15 Points 0.1250 EFTS

In this course we study the physics of wave oscillations and their applications in numerous different physical systems. The geometric theory of image formation is developed and applied to various optical instruments. We will study interference and diffraction problems using Fourier techniques. Its use in optical instruments such as diffraction grating spectrometers, interferometers and lasers is highlighted. The course will also provide a review of 100 level mechanics material and then develop a deeper understanding of mechanics than addressed at 100-level, particularly the motion of rotating bodies and the application of these ideas to real-world systems such as the weather and orbits.

P: (1) PHYS 101; (2) MATH 102 or EMTH 118. These prerequisites may be replaced by a high level of achievement in level 3 NCEA Physics and Mathematics with Calculus or other background approved by the Head of Department.

R: PHYS 201, PHYS 202

RP: (1) PHYS 102; (2) MATH 103 or EMTH 119; (3) COSC 131 or COSC 121.

PHYS205-21S1 (C) Semester 1**PHYS 206 Electromagnetism and Materials**

15 Points 0.1250 EFTS

The treatment of electromagnetic forces and potentials in vector form. Development of the fundamental laws of electromagnetism through to the Maxwell equations in integral form. Practical application of electromagnetic theory to various physical situations. Introduction to modern materials starting with their different classifications, their physical structure and their basic electronic properties. Later sections will include discussion of nanomaterials and semiconductors. Frequent reference will be made to the technological relevance of the material as well as the basic physics at its foundation.

P: (1) PHYS 102 or (PHYS 101 + CHEM 211); (2) MATH 102. These prerequisites may be replaced by a high level of achievement in level 3 NCEA Physics and Mathematics with Calculus or other background approved by the Head of Department.

R: PHYS 202, PHYS 314

RP: MATH 103 or EMTH 119.

PHYS206-21S2 (C) Semester 2**PHYS 285 Technical and Professional Skills for Physicists**

15 Points 0.1250 EFTS

A laboratory based course in experimental techniques, data acquisition and analysis, scientific writing and career skills for second-year physics/astronomy students.

P: (1) PHYS 101; and (2) MATH 102 or EMTH 118; and (3) COSC 131 or COSC 121 or another approved course in computer programming. These prerequisites may be replaced by a high level of achievement in level 3 NCEA Physics and Mathematics with Calculus or other background approved by the Head of Department.

R: PHYS 281, PHYS 282

RP: (1) PHYS 102; and (2) MATH 103 or EMTH 119

PHYS285-21S1 (C) Semester 1**PHYS 310 Thermal, Statistical and Particle Physics**

15 Points 0.1250 EFTS

Development of statistical mechanics from thermodynamic principals. Entropy interpreted from both the thermodynamic and statistical viewpoint. Applications in nuclear and particle physics including radioactivity.

P: (1) PHYS 203; (2) MATH 103 or EMTH 119 or MATH 201.

R: PHYS 204, PHYS 440

RP: MATH 201

PHYS310-21S1 (C) Semester 1

PHYS 311 Quantum Mechanics

15 Points 0.1250 EFTS

Development of quantum mechanics from basic postulates, using operator techniques, with application of the formalism to a variety of systems; time-independent perturbation theory.

P: (1) PHYS 203 or (PHYS 206 and CHEM 251); (2) MATH 103 or EMTH 119 or MATH 201.

RP: MATH 201 and MATH 203

PHYS311-21S1 (C) Semester 1

PHYS 313 Advanced Electromagnetism and Materials

15 Points 0.1250 EFTS

The development of the Maxwell equations in differential form. The propagation of electromagnetic waves in free space, dielectrics and conducting media, their behaviour at dielectric interfaces and their production from radiating sources. Advanced topics in modern materials science. Development of the electronic theory of solids leading to band-structure calculations and on to band-structure engineering in quantum architectures. Advanced semiconductor physics including devices in modern opto-electronics.

P: (1) PHYS 206; (2) PHYS 203 or CHEM 211; (3) MATH 103 or EMTH 119 or MATH 201.

R: PHYS 312, PHYS 314, PHYS 443

RP: MATH 201

PHYS313-21S2 (C) Semester 2

PHYS 319 Atmospheric, Oceanic and Climate Dynamics

15 Points 0.1250 EFTS

Principles of the dynamics of a rotating fluid applied to large-scale motion of the Earth's atmosphere, oceans and climate will be detailed. The first portion of the course will focus on atmospheric thermodynamics and large-scale dynamics in the atmosphere. Details of the global energy balance driving the observed general circulation of the atmosphere and the impacts of variations in atmospheric composition (changes in greenhouse gases) and solar irradiance on this energy balance and climate change will be discussed. The latter section of this course will examine ocean dynamics and their linkages to atmospheric circulations, the El Niño Southern oscillation will be used as an example of atmosphere-ocean linkages in this discussion.

P: (1) PHYS 201 or PHYS 205; (2) PHYS 202 or PHYS 203 or PHYS 206 (3) MATH 103 or EMTH 119 or MATH 201.

R: PHYS 316, PHYS 418, PHYS 419

RP: MATH 202

PHYS319-21S2 (C) Semester 2

PHYS 323 Laser Physics and Modern Optics

15 Points 0.1250 EFTS

The aim of this course is to discuss the physics of the atom-radiation interaction, optical materials, laser physics as well as quantum and non-linear optics with particular reference to key topical applications such as femtosecond lasers and non-linear spectroscopy.

P: 1) PHYS 203; (2) PHYS 206; (3) MATH 103 or MATH 109 or EMTH 119 or MATH 201.

R: PHYS 413

RP: PHYS 205, MATH 201

PHYS323-21S1 (C) Semester 1

Offered in odd-numbered years.

PHYS 326 Classical Mechanics and Symmetry Principles

15 Points 0.1250 EFTS

The Lagrangian and Hamiltonian formulations of classical mechanics which provide essential preparation for all advanced courses in theoretical physics. Techniques learned have wide use in advanced quantum mechanics, quantum field theory, general relativity, particle physics and statistical mechanics.

P: (1) PHYS 202 or PHYS 205; (2) PHYS 203; (3) MATH 201

RP: MATH 202 and MATH 203

PHYS326-21S1 (C) Semester 1

PHYS 329 Special Topic: Physics in Industry Project

15 Points 0.1250 EFTS

P: (1) Subject to approval of the Head of Department; (2) MATH 103 or MATH 109 or equivalent.

C: The Head of Department approved programme of study for the year must include PHYS 381 or ASTR 381.

R: ENME 408, ENEL 400, ENMT 401

PHYS329-21W (C) Whole Year (S1 and S2)

PHYS 381 Advanced Experimental Physics and Astronomy

15 Points 0.1250 EFTS

Execution and write-up of selected laboratory experiments.

P: (1) PHYS 285; (2) 30 points from PHYS 201-206 including either PHYS 202 or PHYS 205; (3) MATH 103 or EMTH 119 or MATH 201.

R: ASTR 381

RP: MATH 201

EQ: ASTR 381

PHYS381-21S2 (C) Semester 2

This course is normally taken in Semester 2. Entry for SU2 or S1 will only be granted by the HOD in exceptional circumstances.

PHYS 391 Introductory Physics Research

15 Points 0.1250 EFTS

150 hours of research undertaken with the supervision of an active researcher. To be assessed with an oral presentation 20%, and a short written report 80%. This course may be started at any time with the agreement of the HOD. Note that start and end dates may affect entitlement to Studylink support.

P: (1) MATH 103 or MATH 109 or equivalent (2) 44 points from PHYS 200 (3) Entry subject to a supervisor approved by the Head of Department, being available

PHYS391-20SU2 (C) Summer (Nov 20)

PHYS391-21S1 (C) Semester 1

PHYS391-21S2 (C) Semester 2

(1) Cannot be credited to the 56 points at 300 level PHYS required for a PHYS major. (2) Comprises 150 hours Research Practice.

Tāura | Postgraduate

Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.

PHYS 407 Research Tools

15 Points 0.1250 EFTS

P: Subject to approval of the Head of Department.

PHYS407-21S1 (C) Semester 1

PHYS407-21W (C) Whole Year (S1 and S2)

PHYS 411 Advanced Quantum Mechanics

15 Points 0.1250 EFTS

P: Subject to approval of the Head of Department

PHYS411-21S1 (C) Semester 1

PHYS 412 Advanced Condensed Matter Physics

15 Points 0.1250 EFTS

P: Subject to approval of the Head of Department.

PHYS412-21S1 (C) Semester 1

PHYS 413 Laser Physics and Modern Optics

15 Points 0.1250 EFTS

P: Subject to approval of the Head of Department.

R: PHYS 323

PHYS413-21S1 (C) Semester 1

PHYS 415 General Relativity

15 Points 0.1250 EFTS

This course introduces the foundations of general relativity - Einstein's theory of gravitational interactions - with applications. We begin with a physical motivation for general relativity in terms of the equivalence principle and tidal forces. We then develop the mathematical framework of differential geometry needed for working in curved space-time. Equipped with the machinery of connections, covariant derivatives, and the Riemann curvature tensor we will investigate the geodesic equations and Einstein's equations, which describe the dynamic relationship between matter and geometry. Applications will include the determination of orbits near stars and black holes, and the bending of light.

P: Subject to approval of the Head of Department.

PHYS415-21S2 (C) Semester 2

PHYS 416 Quantum Field Theory

15 Points 0.1250 EFTS

P: Subject to approval of the Head of Department.

PHYS416-21S2 (C) Semester 2

PHYS 419 Atmospheric, Oceanic and Climate Dynamics

15 Points 0.1250 EFTS

Principles of the dynamics of a rotating fluid applied to large-scale motion of the Earth's atmosphere, oceans and climate will be detailed. The first portion of the course will focus on atmospheric thermodynamics and large-scale dynamics in the atmosphere. Details of the global energy balance driving the observed general circulation of the atmosphere and the impacts of variations in atmospheric composition (changes in greenhouse gases) and solar irradiance on this energy balance will be discussed. The latter section of this course will examine ocean dynamics and their linkages to atmospheric circulations, the El Niño Southern oscillation will be used as an example of atmosphere-ocean linkages in this discussion.

P: (1) PHYS 201 or PHYS 202 or PHYS 203; (2) MATH 103 or MATH 109 or EMTH 119 or MATH 201.

R: PHYS 316, PHYS 418, PHYS 446, PHYS 319

RP: MATH 202

PHYS419-21S2 (C) Semester 2

PHYS 440 Thermal, Statistical and Particle Physics

15 Points 0.1250 EFTS

Development of statistical mechanics from thermodynamic principals. Entropy interpreted from both the thermodynamic and statistical viewpoint. Applications in nuclear and particle physics including radioactivity.

P: (1) PHYS 203; (2) MATH 201.

R: PHYS 204, PHYS 310

PHYS440-21S1 (C) Semester 1**PHYS 441 Quantum Mechanics**

15 Points 0.1250 EFTS

P: Subject to approval of the Head of Department.

PHYS441-21S1 (C) Semester 1**PHYS 443 Advanced Electromagnetism and Materials**

15 Points 0.1250 EFTS

The development of the Maxwell equations in differential form. The propagation of electromagnetic waves in free space, dielectrics and conducting media, their behaviour at dielectric interfaces and their production from radiating sources. Advanced topics in modern materials science. Development of the electronic theory of solids leading to band-structure calculations and on to band-structure engineering in quantum architectures. Advanced semiconductor physics including devices in modern opto-electronics.

P: (1) PHYS 203; (2) PHYS 206; (3) MATH 103 or MATH 109 or EMTH 119 or MATH 201.

R: PHYS 312, PHYS 313, PHYS 314, PHYS 442, PHYS 444

RP: PHYS 205, MATH 201

PHYS443-21S2 (C) Semester 2**PHYS 456 Classical Mechanics**

15 Points 0.1250 EFTS

P: Subject to approval of the Head of Department.

PHYS456-21S1 (C) Semester 1**PHYS 480 Physics Research Project**

30 Points 0.2500 EFTS

An independent research project in Physics for 400-level students

P: Entry is subject to approval of the Head of Department

PHYS480-21A (C) Starts Anytime**PHYS480-21S1 (C) Semester 1****PHYS 493 Research Project**

15 Points 0.1250 EFTS

P: Subject to approval of the Head of Department.

PHYS493-20SU2 (C) Summer (Nov 20)**PHYS493-21S1 (C) Semester 1****PHYS493-21S2 (C) Semester 2****PHYS 495 Introduction to Physics Education Research**

15 Points 0.1250 EFTS

This course develops knowledge of research into teaching and learning as applied particularly to first-year level Physics. It reviews modern literature on Physics Education research. Students will combine knowledge gained in this course with their own experience in running tutorials and laboratories to develop plans for improved learning in those areas.

P: Subject to permission of Head of Department.

PHYS495-21S1 (C) Semester 1*Cannot be credited to a postgraduate degree.***PHYS 690 MSc Thesis**

120 Points 1.0000 EFTS

P: Subject to approval of the Head of Department.

PHYS690-21A (C) Starts Anytime*Part-time enrolment (0.65 EFTS) is available on approval.***PHYS 790 Physics PhD**

120 Points 1.0000 EFTS

P: Subject to approval of the Head of Department.

PHYS790-21A (C) Starts Anytime

*Part-time enrolment (0.65 EFTS) is available on approval. *From 1 January 2008, international students who are residing in New Zealand on a NZ Immigration Study Visa pay the Domestic Fee for this course. International fees apply for all other courses.*

Plant Biology

School of Biological Sciences

Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.

PBIO 480 Project

30 Points 0.2500 EFTS

A written report on a research project approved by the Head of School of Biological Sciences. The report must be completed and presented by the due date in the year in which the student presents the courses selected from BIOL401-493 (refer to degree schedule).

P: Subject to approval of the Head of School

PBIO480-21W (C) Whole Year (S1 and S2)**PBIO 690 MSc Thesis**

120 Points 1.0000 EFTS

P: Subject to approval of the Head of Department.

PBIO690-21A (C) Starts Anytime*Part-time enrolment (0.65 EFTS) is available on approval.***PBIO 790 Plant Biology PhD**

120 Points 1.0000 EFTS

P: Subject to approval of the Head of School.

PBIO790-21A (C) Starts Anytime

*Part-time enrolment (0.65 EFTS) is available on approval. *From 1 January 2008, international students who are residing in New Zealand on a NZ Immigration Study Visa pay the Domestic Fee for this course. International fees apply for all other courses.*

Political Science and International Relations

School of Language, Social and Political Sciences**POLS 102 Politics: An Introduction**

15 Points 0.1250 EFTS

This course introduces the basic tools and techniques used in political science, including essay writing, methods of analysis, and formulation of hypotheses. It also introduces students to a selection of key theories and frameworks. It covers topics such as democracy, authoritarianism, people's power, civil society, conflict, globalisation, and the future of our world. This course will be of great benefit to Political Science majors of all levels and to students who desire a broad-based introduction to the field.

POLS102-20SU2 (D) Summer (Nov 20)**POLS102-21S1 (C) Semester 1****POLS102-21S1 (D) Semester 1****POLS 103 Introduction to New Zealand Politics and Policy**

15 Points 0.1250 EFTS

How are decisions made in New Zealand? Who has how much power in this process? How can citizens, businesses, iwi, and a diverse range of groups have a say? This course is an introduction to New Zealand politics and public policy. The course examines the core features of New Zealand's political landscape: The constitution, how MMP works, the roles of leaders, cabinet and parliament, and then explores issues that matter to the public, and asks how citizens can participate in politics, what role powerful groups including the media play in decision making and how new, diverse voices can be heard, including your own. The course includes a field day working in local communities learning about leadership and public attitudes.

POLS103-21S1 (C) Semester 1**POLS 104 Introduction to International Relations**

15 Points 0.1250 EFTS

This course provides a broad introduction to the core issues and theories related to the study of international relations. Students will be introduced to the discipline through a study of key historical events, prominent theories of international relations, and a variety of practical examples.

POLS104-21S1 (C) Semester 1**POLS 105 Comparing the Politics of Nations: A Global Introduction**

15 Points 0.1250 EFTS

This course serves as an introduction to the basics of comparative political studies. It is designed to provide the student with a broad comparative overview of the world's political systems. The main objective is to give students the necessary tools to assess and understand the differences in political culture, political organizations, governmental structures, and political behaviour.

POLS105-21S2 (C) Semester 2

POLS 106 Plato to Nato: Introduction to Political Thought

15 Points 0.1250 EFTS

What's the right thing for a group of people to do? How does a society know it is well governed? How do you know you are doing the right thing for your country, or your fellow citizens, or how that will impact on your family and friends? Who matters more, your family or your fellow citizens? The best way to answer these questions has been debated for more than over 2000 years. This course is an introduction to the thinkers that have suggested answers to these questions and influenced everyone from Plato to Trump and you. In this course, you will study the evolution of the ideas that form the building blocks of the political and social sciences. The course traverses the political ideas that arose in the Greek and Roman civilisations, the Renaissance, the birth of America, the death of the English and French despotic monarchies, and the great traumas of socialism, Marxism and the political upheavals that followed the wars of the 20th century. We will trace the changes in the fundamental political concepts such as freedom, equality, rights, justice, government, the state, markets, and domination.

R: PHIL 145

EQ: PHIL 145

POLS106-21S2 (C) Semester 2**POLS106-21S2 (D) Semester 2****POLS 202 International Relations and Humanitarian Ideals**

15 Points 0.1250 EFTS

This course examines the intersection of international relations and humanitarian ideals. It examines debates over the meaning of sovereignty, the role of identity and ethnicity in war, and the impact of human rights in international and global politics. These issues are illustrated via case studies of humanitarian intervention and the war on terror.

P: Any 15 points at 100 level from POLS, or any 60 points at 100 level from the Schedule V of the BA, or LAWS, GEOG, or the Schedule V of the BCom.

POLS202-21S2 (C) Semester 2**POLS202-21S2 (D) Semester 2****POLS 205 United States Politics**

15 Points 0.1250 EFTS

This course focuses on the institutions and government of the United States. Topics include civil rights and civil liberties, the Courts, Presidential-Congressional relations, the national security establishment (e.g. the military and Central Intelligence Agency), the Trump Administration, and the 2020 Presidential election. We also consider key foreign policy issues such as the U.S. in the Asia-Pacific region, U.S.-China relations, U.S.-North Korea relations, and the global significance of the U.S. economy. Particular attention will be given to the dynamics of the 2020 Presidential election.

P: Any 15 points at 100 level from POLS, or any 60 points at 100 level from the Schedule V of the BA, or LAWS, GEOG, or the Schedule V of the BCom.

POLS205-21S2 (C) Semester 2**POLS 206 Introduction to Public Policy**

15 Points 0.1250 EFTS

This course introduces concepts of and approaches to public policy analysis and evaluation. Focusing on policy areas such as health, genetic engineering, human reproduction, the environment, and new technology, the course examines the interaction of expertise, society, and public policy and clarifies the intricacies of the policy process in light of technological and social change.

P: Any 15 points at 100 level from HLTH, HSRV, or POLS, or any 60 points at 100 level from the Schedule V of the BA, or LAWS, GEOG, or the Schedule V of the BCom.

POLS206-21S1 (C) Semester 1**POLS 209 Politics of International Aid and Development**

15 Points 0.1250 EFTS

This course introduces the main discourses, theories and practices related to the discipline of international development studies and its actors. We will first study the contentious history of the discipline which remains at times influenced by its colonial roots. This historical review will be key in appreciating how, since the end of World War II, global and regional political and economic contexts have informed the rise - and fall - of development theories and practices. Building on these historical insights, the course then turns to the politics of development aid and its actors. Here, a critical analysis of the drivers and practices for and around aid allocation will be pivotal in assessing the impact of aid on the ground. We will discuss key debates in relation to why and how governments give aid (bilateral and multilateral aid) and why, despite billions of dollars spent on international aid over time, poverty still plagues many countries across the Global South. The third part of the course turns to international private aid flows. Here we will discuss the trends and issues that arise from a proliferation of private actors in the aid industry: foundations, corporations, Non-Governmental Organisations (NGOs) and broader civil society movements. Practical case studies will be utilised throughout the course, by reference to a variety of historical events, case studies of actors in the field such as the World Bank, NZAid, and Oxfam, as well as guest experts from the field.

P: Any 15 points at 100 level from POLS, or any 60 points at 100 level from the Schedule V of the BA, or LAWS, GEOG, or the Schedule V of the BCom.

POLS209-21S2 (C) Semester 2**POLS 210 Democratic Uprisings and Political Participation**

15 Points 0.1250 EFTS

With democracy increasingly coming under attack around the world, this course examines democratic uprisings, with a primary focus on people's power uprisings in Southeast Asia and the Middle East, popularly known as the "Arab Spring". It examines the causes of uprisings, the

factors that lead to success or failure, and the role of both traditional and social media in the uprisings. It considers when newly created democracies are most likely to succeed and when they are likely to fail. Last, we consider the threats to contemporary democracies, particularly new democracies, but also with some reflection on more established democracies like our own.

P: Any 15 points at 100 level from POLS, or any 60 points at 100 level from the Schedule V of the BA, or LAWS, GEOG, or the Schedule V of the BCom.

POLS210-21S1 (D) Semester 1**POLS210-21S1 (C) Semester 1****POLS 211 China from Mao to Now**

15 Points 0.1250 EFTS

This course will provide an introduction to the domestic politics and foreign policy of the People's Republic of China and Taiwan (Republic of China).

P: Any 15 points at 100 level from POLS, or any 60 points at 100 level from the Schedule V of the BA, or LAWS, GEOG, or the Schedule V of the BCom.

POLS211-21S2 (C) Semester 2**POLS 212 Global and International Political Economy**

15 Points 0.1250 EFTS

This course examines the politics of global economic relations. It will focus on issues of international trade, the international monetary system, and foreign investment-and the relationship of each to both domestic and international politics. Among the specific topics to be discussed are: trade and protectionism, the role and performance of global institutions such as the IMF, World Bank, and WTO, the significance of multinational corporations, efforts at regional economic integration such as the EU and NAFTA, the relationship of the world economy to the economic development of poor countries, the emergence of new economic players such as China and India, and the relationship between economic strength and political power.

P: Any 15 points at 100 level from POLS, or any 60 points at 100 level from the Schedule V of the BA, or LAWS, GEOG, or the Schedule V of the BCom.

POLS212-21S1 (C) Semester 1**POLS 216 City Politics and Urban Policy**

15 Points 0.1250 EFTS

This is the century of the city. By 2050, seven in ten people on the planet will be living in an urban area. Many of the rapidly growing cities are larger than small nations. How do cities make decisions? How do citizens in cities effect change? This course examines local and regional community politics in rapidly developing urban areas and struggling regions; in particular the course examines the role and function of local democracy through the lens of public participation in key policy issues. Discussion and analysis considers the role of the public in policy formulation, and implementation at neighbourhood, city and regional level; and the relationship between local and central government and international agencies and considers the changing roles and challenges of local governance. There is a special focus on the politics of disasters and community recovery. Teaching includes field trips in both Christchurch and Westport field centre.

P: Any 15 points at 100 level from POLS, or any 60 points at 100 level from the Schedule V of the BA, or LAWS, GEOG, or the Schedule V of the BCom.

POLS216-21S1 (C) Semester 1**POLS 224 Democratic and Economic Evolution of Europe**

15 Points 0.1250 EFTS

This course is designed to provide sufficient knowledge and understanding of recent economic developments and democratisation processes in Europe as a whole and within the EU as an institution. It will examine the institutional and policy changes that have happened since the European "reunification" in 1989, but significant attention will be paid to the economic and political history of the continent also.

P: Any 15 points at 100 level from EURA or POLS, or any 60 points at 100 level from the Schedule V of the BA, or LAWS, GEOG, or the Schedule V of the BCom.

R: EURA 224, EURO 224, EURA 324, EURO 324

EQ: EURA 224

POLS224-20SU2 (C) Summer (Nov 20)**POLS224-21S1 (C) Semester 1****POLS 227 Strategic Foresight for Better Public Policies**

15 Points 0.1250 EFTS

This course introduces concepts, methods, tools and techniques of Strategic Foresight, which is a framework for working with stakeholders and communities to identify a set of plausible futures that can guide policy-making and decisions. This course will introduce you to concepts such as systems mapping, plausible futures, scenario development, weak signals, futures wheel, trends, and change drivers. We will also consider principles of effective and ethical community engagement in both bicultural and multicultural contexts. Strategic Foresight is used by a range of government, quasi-government and non-government actors such as the OECD, UN, New Zealand Defence Force, Shell, CSIRO, and various national governments. Upon completion of this course, students will be prepared to make a difference through the application of foresight tools and methods.

P: Any 15 points at 100 level from POLS, or any 60 points at 100 level from the Schedule V of the BA.

POLS227-20SU2 (D) Summer (Nov 20)

POLS 232 Media and Politics

15 Points

0.1250 EFTS

The course provides an understanding of the role of the media in domestic and international politics. It does this by analysing key theoretical assumptions and debates on the role of media institutions in the struggle for power domestically and internationally.

P: Any 15 points at 100 level from COMS or POLS, or any 60 points at 100 level from the Schedule V of the BA, or LAWS, GEOG, or the Schedule V of the BCom.

R: COMS 205

EQ: COMS 205

POLS232-21S1 (C)**Semester 1****POLS 301 Contemporary Political Theory**

30 Points

0.2500 EFTS

The study of politics focuses not only on how the political world operates, but also the normative question of how it ought to operate. Is redistribution of wealth justified? Do people have a right to what they earn in the market? Is equality of opportunity possible? Is it desirable? This course examines theories of distributive justice and their implications for economics and markets. Topics covered include: Utilitarianism; Rawls's theory of justice; Dworkin's equality of resources; Libertarianism; Universal basic income; Market socialism; Citizenship; and culture and politics.

P: Any 30 points at 200 level from PHIL or POLS, or any 60 points at 200 level from the Schedule V of the BA, or LAWS, GEOG, or the Schedule V of the BCom.

R: PHIL 317, POLS 351

EQ: PHIL 317

POLS301-21S1 (C)**Semester 1****POLS 304 Environmental Politics and Policy**

30 Points

0.2500 EFTS

Has green politics come of age? Around the world we are seeing spontaneous community movements challenging four difficult and intersecting issues: dangerous environmental change, growing social inequality, weak democracy and a paradigm of growth that has contributed to resource extraction beyond the capacity of the planet. Against a background of difficult issues including climate change and the impact of colonization, this course examines the roots of environmental thinking and activism and asks- what are the implications of these ideas for how we live as citizens, communities, businesses and nations and how might we plan for just transitions towards a more equitable and sustainable future? The course involves a weekend field trip.

P: Any 30 points at 200 level from POLS, or any 60 points at 200 level from the Schedule V of the BA, or LAWS, GEOG, or the Schedule V of the BCom.

POLS304-21S2 (C)**Semester 2****POLS 308 International Politics: New Zealand Foreign Policy**

30 Points

0.2500 EFTS

This course will critically examine New Zealand's past and present foreign policy while exploring future foreign policy directions.

P: Any 30 points at 200 level from POLS, or any 60 points at 200 level from the Schedule V of the BA, or LAWS, GEOG, or the Schedule V of the BCom.

R: PACS 303

EQ: PACS 303

POLS308-21S1 (C)**Semester 1****POLS 315 Global Politics: Contemporary Democracies and Political Economy**

30 Points

0.2500 EFTS

This seminar course is an in-depth comparative analysis of the political processes, behaviour, and institutions in industrial democracies. The course considers the numerous avenues through which citizens influence politics and policy-making and considers the implications of formal institutional structures and informal forms of participation. In this seminar, we will survey (i) the historical, geographic, and economic context, (ii) institutions and electoral processes, and (iii) recent transformations and future challenges of modern industrial democracies.

P: Any 30 points at 200 level from POLS, or any 60 points at 200 level from the Schedule V of the BA, or LAWS, GEOG, or the Schedule V of the BCom.

POLS315-21S2 (C)**Semester 2****POLS 319 International Organisations: The United Nations and Contemporary Challenges**

30 Points

0.2500 EFTS

An advanced undergraduate course examining international organisations with a special focus on the contemporary role of the United Nations.

P: Any 30 points at 200 level from POLS, or any 60 points at 200 level from the Schedule V of the BA, or LAWS, GEOG, or the Schedule V of the BCom.

POLS319-21S1 (C)**Semester 1****PACE 395 Internship**

30 Points

0.2500 EFTS

What can you do with your major? With your degree? The purpose of the internship course is to explore both the ideological and practical assumptions guiding this question. The course is designed to be a critical, theoretical and "real-world" examination of the practices and ideologies inherent in both community and business organisations. You will apply the analytical skills acquired through your major, and through class seminars and readings, to a project designed by a local company or community group. Please check out the website for further information and specific project descriptions: www.arts.canterbury.ac.nz/internships

P: 150 points, special application and interview, and permission of the Internship Director.

R: ARTS 395

EQ: ARTS 395

PACE395-20SU2 (C)**Summer (Nov 20)****PACE395-21A (C)****Starts Anytime****PACE395-21S1 (C)****Semester 1****PACE395-21S2 (C)****Semester 2**

Limited entry. See limitation of entry regulations. A student will be selected for a specific project. Only students accepted for projects will be allowed into the course. Please go to <http://www.arts.canterbury.ac.nz/internships> for more information.

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POLS 440 Principles and Practice of Policy and Governance

30 Points

0.2500 EFTS

This course offers advanced theory and practice of policy making and governance in the not-for-profit, public policy and public and private sectors. The first part of the course will provide foundational knowledge of the principles, theories and historical dimensions of policy analysis and governance. The second part of the course will be composed of a series of intensive professional seminars and case studies, providing students with detailed practical insights into the practical world of giving advice and making decisions while working within the context of a political environment constrained by other institutions, time and resources.

P: Subject to approval of the Head of Department.

POLS440-21S1 (C)**Semester 1****POLS440-21S1 (D)****Semester 1****POLS 441 Principles and Practice of International Relations and Diplomacy**

30 Points

0.2500 EFTS

This course offers a blend of theoretical and practical insight into international relations and diplomacy. The first part of the course will provide foundational knowledge of the principles, theories and historical dimensions of foreign policy and diplomacy. The second part of the course will be composed of a series of intensive professional seminars, providing students with detailed practical insights into complex and difficult cases in international relations and diplomacy through the experiences of those involved in them.

P: Subject to approval of the Head of Department.

R: ILAP 614

POLS441-21S1 (C)**Semester 1****POLS 442 Policy and Governance in Small States of New Zealand and the Pacific**

30 Points

0.2500 EFTS

This course provides an advanced introduction to policy making and governance challenges in small states, with a particular focus on New Zealand and the small states of the Pacific. Students will be introduced to Pacific and New Zealand political economy/development/challenges, building on insights into the cultural capital, opportunities and risks (environmental, social and economic) that these communities face. Through regional case studies of policy development and governance and seminars with practitioners and community leaders, students will also have opportunities to gain experience in locally led problem solving.

P: Subject to approval of the Head of Department.

R: POLS 402

POLS442-21S2 (C)**Semester 2****POLS 444 International Human Rights**

30 Points

0.2500 EFTS

This course examines the growth of the human rights movement over the past 70 years and problems associated with creating a universal set of human rights norms. Contemporary challenges will be examined with a particular emphasis on the Global South.

P: Subject to approval of the Head of Department.

R: POLS 405, DIPL 405, ILAP 662, POLS 420 and DIPL 418 prior to 2014

POLS444-21S2 (C)**Semester 2****POLS 445 China's Emergence as a Global Great Power**

30 Points

0.2500 EFTS

Covering China's international relations, government policy-formation process and contemporary institutions, this course will use an issues-based approach to help students develop a thorough understanding of China's emergence as a global great power and the global implications of this.

P: Subject to approval of the Head of Department.

R: POLS 406 and DIPL 406

POLS445-21S1 (C)**Semester 1****POLS 446 Political Economy of Development**

30 Points

0.2500 EFTS

This course examines the historical major economic, political, and social changes in the world economy in general and a comparative case study focus on East and Southern Asia. Discussion includes factors contributing to increases in economics performance, changes in the form of government, technological change (including industrialization), and episodes of integration

Product Design

and disintegration of the global economy. The course will also survey the impact of colonialism and the development of the nation-state and examines the theoretical approaches to economic development and growth.

P: Subject to approval of the Head of Department.

R: POLS 407, DIPL 407, ILAP 671

POLS446-21S1 (C) Semester 1

POLS446-21S1 (D) Semester 1

POLS 480 Supervised Research Paper

30 Points 0.2500 EFTS

In this course, students explore a research topic of their choice under the supervision of an appropriate staff member, subject to approval by the Programme Director. Students will be required to attend seminars in preparation for their independent research, and will also make presentations of their research during the year. This course is compulsory for all POLS Honours students. Students are recommended to submit some potential research topics to the honours coordinator upon enrolment.

P: Subject to approval of the Head of Department.

POLS480-21W (C) Whole Year (S1 and S2)

POLS 481 Supervised Research Paper A

15 Points 0.1250 EFTS

This is part A of the Supervised Research Paper for students beginning their Honours degree in Semester 2.

P: Subject to approval of the Head of Department.

R: POLS 480

POLS481-21S2 (C) Semester 2

POLS 482 Supervised Research Paper B

15 Points 0.1250 EFTS

This is part B of the Supervised Research Paper for students beginning their Honours degree in Semester 2.

P: Subject to approval of the Head of Department.

R: POLS 480

POLS482-21S1 (C) Semester 1

POLS 688 Dissertation

60 Points 0.5000 EFTS

A supervised, independent research project

P: Subject to approval of the Head of Department.

POLS688-21A (C) Starts Anytime

POLS 689 Thesis

90 Points 0.7500 EFTS

A supervised, independent research thesis.

P: Subject to approval of the Head of Department.

POLS689-21A (C) Starts Anytime

POLS 690 MA Thesis

120 Points 1.0000 EFTS

P: Subject to approval of the Head of Department.

POLS690-21A (C) Starts Anytime

Part-time enrolment (0.65 EFTS) is available on approval.

POLS 790 Political Science PhD

120 Points 1.0000 EFTS

P: Subject to approval of the Department Coordinator.

POLS790-21A (C) Starts Anytime

*Part-time enrolment (0.65 EFTS) is available on approval. *From 1 January 2008, international students who are residing in New Zealand on a NZ Immigration Study Visa pay the Domestic Fee for this course. International fees apply for all other courses.*

Product Design

School of Product Design

PROD 101 Product Design 1

30 Points 0.2500 EFTS

An introduction to the methods of systematic product design and specification, illustrated by case studies of successful commercial product designs. Analysis of existing products. History of design and influential designers. Team-based open-ended product design and prototyping projects on nominated topics. Students will form teams and work on specifying and making a product prototype related to their degree major, using techniques such as 3D printing and hand-tool operations (Industrial Product Design), simple animation software and game engines (Immersive Applied Game Design) or mixing, blending and grinding operations (Chemical and Healthcare Product Formulation).

P: PROD 110 or ENGR 101

PROD101-21S2 (C) Semester 2

PROD 110 Product Design Principles

15 Points 0.1250 EFTS

Introduction to formal aspects of design practice, including the detailed design brief, important influences and influencers in design throughout history, and the place of design in the context of cultures, nations and users. Critical practical skills, including freehand, digital and technical drawing, as well as prototyping skills using paper, card, 3D printing, laser-cutting, modelling foam and wood.

P: University Entrance

R: Restricted to students enrolled in the BProdDesign, the BProdDesign/BCom and the BProdDesign/BSc.

PROD110-21S1 (C) Semester 1

PROD 111 Materials Science for Design

15 Points 0.1250 EFTS

Classes of materials and their properties in terms of strength, chemical stability, corrosion, elasticity, hardness, and applications. Stress-strain behaviour, Young's modulus, elastic deformation and failure modes.

PROD111-21S2 (C) Semester 2

PROD 121 The Game Development Process

15 Points 0.1250 EFTS

This course takes students through the process of going from a game idea to a playable prototype. Students learn about the various roles, skills, technologies, and processes that need to come together to deliver a working game. Projects will be done in teams, and will mimic as closely as possible the processes used in commercial game studios.

PROD121-21S2 (C) Semester 2

PROD 131 Introduction to Formulation Science

15 Points 0.1250 EFTS

This course introduces the key aesthetic and functional requirements and the principles underlying the creation of formulated products across a wide range of applications. Practical laboratories will focus on making and analysing a range of formulated products. Examples include pharmaceuticals, adhesives, paints, industrial coatings, fuels, cosmetics and personal care products, food and nutritional products, detergents and cleaning products, and agricultural products such as fertilizers, pesticides and herbicides. Lectures will cover principles of interfacial science affecting the creation and stability of emulsions, suspensions and solid formulations such as tablets and powders. Interactions of formulated products with physical systems will be described, including the mechanisms involved in their adsorption, absorption, metabolism, excretion and distribution within biological, non-biological and environmental systems.

P: Any 15 points of CHEM

PROD131-21S2 (C) Semester 2

PROD 211 Materials Engineering and Selection

15 Points 0.1250 EFTS

Performance of metallic, ceramic, polymeric, composite and electronic materials in a wide variety applications. The influence of materials processing on properties. Mechanical properties and strengthening. Solidification processing of metals and plastics. Corrosion. Application of the Granta CES Materials Selector software package to explore materials properties and select suitable materials for given design applications.

P: 1) PROD 111; and 2) either 15 points of MATH/EMTH at 100-level or 15 points of PHYS at 100-level

PROD211-21S1 (C) Semester 1

PROD 212 Thermofluids

15 Points 0.1250 EFTS

Fluid properties such as density and viscosity. Fluid statics, Bernoulli's equation, pipe flow profiles, pressure drop and frictional losses under flow. Laminar and turbulent flow. Pumps, compressors and fans. Thermodynamic properties such as heat capacity, latent heat of fusion and evaporation. Introduction to conductive and convective heat transfer, film and overall heat transfer coefficients. Radiation. Graphical analysis of common thermodynamic cycles, including the Carnot cycle and heat pumps.

P: 1) either PROD 110 or ENGR 101; and 2) either 15 points of MATH/EMTH at 100-level or 15 points of PHYS at 100-level

PROD212-21S1 (C) Semester 1

PROD 213 Industrial Product Design 1A

15 Points 0.1250 EFTS

The process of industrial product design, focusing on the transition from product ideas to working prototypes. Principles of successful product design, such as clarity of function to end-users, simplicity, robustness, etc. Basic principles of mechanical design e.g. movement and force transmission. Embodiment of the design concept. Aesthetics. Introduction to electronics and control. Design project management. Developing the design proposal. Introduction to product economics.

P: PROD 110 or PROD 101

PROD213-21S1 (C) Semester 1

PROD 214 Industrial Product Design 1B

30 Points 0.2500 EFTS

Practical workshop skills, working with wood, metal, plastic, composites, etc., with an emphasis on building models and prototyping. Team-based open-ended product design and prototyping projects on nominated topics. Students will form teams and develop a set of product specifications, build prototypes, then evaluate the performance of the prototypes against the original specifications.

P: 1) PROD 101 and 2) either PROD 211 or PROD 212

PROD214-21S2 (C) Semester 2

PROD 221 Game Design in Context

15 Points 0.1250 EFTS

This course explores a wider view of games and society. Topics include: 1. Ethics, Social Issues, and Games: How are various segments of the population portrayed in games? Specific focus will be on the representation of women and minorities in games, discussions of violence in games, games addiction, and how design choices affect, and are affected by, society. 2. Applied Games: Games are primarily used for entertainment purposes. But many argue that they could and should also be used for other purposes where motivation is important, such as games for learning, games for training, games for health, and games for behaviour change. 3. Bi-culturalism in Games: Māori themes and motivations in games are important in the New Zealand context. How can game designers better support a Māori audience specifically, and various cultures more generally?

P: one of COSC 101 or PROD 121 or DIGI 101

PROD221-21S1 (C) Semester 1

PROD 222 Gaming Project Studio 1

30 Points 0.2500 EFTS

This course allows students to create substantial immersive experiences using techniques such as structured brainstorming, rapid prototyping (fail often, fail early), constructive critiquing, and iteration. Students will create several major works during the course, working in teams, formally presenting their ideas, and working with client constraints. Several technologies will be introduced, such as collaborative project management and tracking tools, code repositories, and presentation software.

P: 1) either PROD 101 or SENG 201; and 2) either PROD 121 or PROD 223

PROD222-21S2 (C) Semester 2

PROD 223 Immersive Game Design

15 Points 0.1250 EFTS

This paper introduces students to the technologies and techniques used to create Virtual Reality (VR) and Augmented Reality (AR) experiences. Students will design and build games using VR and AR head-mounted displays, 6-degree-of-freedom motion controllers, depth cameras, and other leading-edge technologies, such as Arduino-controlled input and output. We will look at three main topics: 1. The Human Sensory Systems: What are the strengths and weaknesses of the main human senses of vision, audio, haptics (touch), smell and taste? 2. Multi-sensory Technologies: What technologies exist to deliver content to each of these senses? 3. Holistic Design: What are the design concerns when choosing an appropriate set of sensory "displays" for immersive experiences? Which types of cues are needed for a given user/task/environment combination?

P: PROD 121 or COSC 121 or COSC 131

PROD223-21S2 (C) Semester 2

PROD 224 Computation for Games

15 Points 0.1250 EFTS

This course introduces the fundamentals of mathematics, statistics, and algorithms for game development. The topics covered are an introduction to linear algebra, statistics for game balancing, and algorithms in computer games and computer graphics. The practical aspect of this course will teach the students how to apply the theoretical concepts in game development on one of the standard game engines.

P: PROD 121 and 15 points of MATH, EMTH or STAT courses

PROD224-21S1 (C) Semester 1

PROD 229 Special Topic: Introduction to Game Audio

15 Points 0.1250 EFTS

This introduces the student to foundational skills in the design of music and sound effects for interactive video games. Those interested in any aspect of game development will benefit from exposure to historical and current perspectives towards game audio, and will gain knowledge of a variety of approaches to audio creation, editing and integration into video games. Specific practical techniques for working with music and sound effects will be covered. No prior experience in music or sound design is required.

P: Subject to the approval of the Head of School.

PROD229-20SU2 (C) Summer (Nov 20)

PROD 230 Product Properties and Processing

15 Points 0.1250 EFTS

The goal of this course is to provide students with an understanding of the physical elements relevant to formulations. Students will learn systematic procedures, including drawing and labelling flowchart, for calculating the materials and energy required and key compositions during production. They will be able to use solubility behaviours and phase diagrams to determine the composition of the different parts of formulated products, such as oil and water phases in emulsions.

P: CHEM 111 and any 15 points at 100 level from MATH or EMTH.

R: ENCH 291

PROD230-21S1 (C) Semester 1

PROD 231 Product Formulation 1

15 Points 0.1250 EFTS

Properties of solid and liquid formulations, including particle size and shape, granulation, agglomeration, tableting, solubility, viscosity, colloids and suspensions. Common components of formulations for chemical, biological, pharmaceutical, personal and healthcare products and their functionalities.

P: CHEM 111

RP: BIOL 111 or PROD 131

PROD231-21S1 (C) Semester 1

PROD 232 Natural Products Properties and Production

15 Points 0.1250 EFTS

Classes and sources of natural products, with an emphasis on extracted components such as microbial metabolites or essential oils from plants, are described and characterised. Cultural issues surrounding the ownership and use of native flora and fauna. The design, operation, performance and advantages/disadvantages of current production methods such as steam distillation and solvent extraction are described. Laboratory practical exercises in extraction and analysis of natural products.

P: PROD 235 or CHEM 112

PROD232-21S2 (C) Semester 2

PROD 233 Chemical and Healthcare Product Formulation 1A

15 Points 0.1250 EFTS

Systematic specification of product characteristics in the context of desired functionality, consumer perception and behaviour. Tikanga Māori and other indigenous protocols for inclusive partnership when working with native flora and fauna. Market research, product testing and assessment methods. Preliminary economic feasibility analysis. Fundamentals of toxicological and allergenic response testing.

P: CHEM 111

PROD233-21S1 (C) Semester 1

PROD 234 Chemical and Healthcare Product Formulation 1B

30 Points 0.2500 EFTS

Team-based product design project. Students will work in teams of 3 to 4 to choose a particular product, for which they will write specifications, and then design a production method and final formulation to meet these requirements. Product prototypes will be produced in the laboratory and tested to demonstrate that the specifications have been met. A preliminary marketing strategy will be devised.

P: PROD 101 and PROD 233

PROD234-21S2 (C) Semester 2

PROD 311 Drawing and Solid CAD Modelling

15 Points 0.1250 EFTS

Advanced sketching for conceptual product design and communication. Advanced 3D computer-aided drawing and solid modelling, with finite element analysis for strength and durability. Preparation of models for rapid-prototyping (additive manufacture/3D printing).

P: ENME 201 or ENME 221

PROD311-21S1 (C) Semester 1

PROD 313 Industrial Product Design 2A

15 Points 0.1250 EFTS

The design process for successful transition from product prototype through to final product. Advanced design aesthetics. Manufacturing of industrial products. Advanced economic analysis.

P: PROD 213

PROD313-21S1 (C) Semester 1

PROD 314 Industrial Product Design 2B

30 Points 0.2500 EFTS

Capstone product design project. Students work in groups to devise and develop design ideas, build and test their design prototypes and evaluate performance. Ideally, projects will be devised in collaboration with an industry partner. A final report will include the design specifications, idea generation, prototyping and evaluation, recommended manufacturing methods and an economic analysis. The final project may form the basis of an entry to an approved internationally recognised student design competition such as the Warman Design and Build Competition (Australasia) or the James Dyson Award (International).

P: PROD 214

PROD314-21S2 (C) Semester 2**PROD 321 Interactive Computer Graphics and Animation**

15 Points 0.1250 EFTS

In this paper, students will learn about the technical aspects of how moving images are generated for use in video games. This includes topics such as geometric modeling, the rendering pipeline, the use of various texturing techniques, and programmable shaders. In addition, students will learn various techniques for making objects move, such as forward and inverse kinematics, behavioural animation, and physically-based animation.

P: PROD 223

PROD321-21S1 (C) Semester 1**PROD 322 Gaming Project Studio 2**

30 Points 0.2500 EFTS

This paper will allow students to apply the techniques and strategies from the courses they have completed to deliver a well-designed, tested, and polished immersive experience applied to a real-world problem space. Projects range from games for health, to games for behaviour change, games for social justice, and games for education. Other applied areas of games are encouraged.

P: PROD 222 and (PROD 321 or PROD 323)

PROD322-21S2 (C) Semester 2**PROD 323 Game Engines and Artificial Intelligence**

15 Points 0.1250 EFTS

In this paper, students will learn about game engine design through the use of existing engine source code. Students will extend existing functionality through the use of programming techniques. In addition, students will become comfortable designing and creating game-based artificial intelligence (AI) constructs.

P: PROD 223

PROD323-21S1 (C) Semester 1**PROD 331 Product Formulation 2**

15 Points 0.1250 EFTS

Physical stability of formulated products such as suspensions, colloids, creams and lotions. Accelerated shelf-life testing methods. Microbial stability, safety and testing. Particulate flow, mixing and packing. Solids milling, conveying, pneumatic transport and bulk storage behaviour.

P: PROD 231

PROD331-21S1 (C) Semester 1**PROD 333 Chemical and Healthcare Product Formulation 2A**

15 Points 0.1250 EFTS

Unit operations for producing formulated products such as lotions, gels, colloids and suspensions, tableted and particulate materials. Scale-up and operation. Process design, simulation and economic analysis for formulated product manufacture. Batch scheduling and recipe specification. Filling and packaging operations.

P: PROD 233

PROD333-21S1 (C) Semester 1**PROD 334 Chemical and Healthcare Product Formulation 2B**

30 Points 0.2500 EFTS

Individual capstone product design project. Students will work individually to develop their own particular product line with a minimum of two products spanning at least two different formulations (ie. a liquid product and a powder, or a gel and a tablet, etc). Students will write specifications, and then design production methods and final formulations to meet these requirements. Product prototypes for these two products will be produced in the laboratory and proof-of-concept demonstrated, along with high-quality printed materials (packaging, labels, etc). A preliminary economic analysis and marketing strategy will be devised.

P: PROD 234 and (PROD 230 or ENCH 291)

PROD334-21S2 (C) Semester 2**PROD 386 Special Topic**

15 Points 0.1250 EFTS

P: Subject to the approval of the Head of School.

PROD386-21S1 (C) Semester 1**PROD386-21W (C) Whole Year (S1 and S2)****PROD386-21S2 (C) Semester 2****PROD 387 Special Topic**

15 Points 0.1250 EFTS

P: Subject to the approval of the Head of School.

PROD387-21S1 (C) Semester 1**PROD387-21W (C) Whole Year (S1 and S2)****PROD387-21S2 (C) Semester 2****PROD 388 Independent Course of Study**

15 Points 0.1250 EFTS

P: Subject to the approval of the Head of School.

PROD388-21S1 (C) Semester 1**PROD388-21W (C) Whole Year (S1 and S2)****PROD388-21S2 (C) Semester 2****PROD 389 Independent Course of Study**

15 Points 0.1250 EFTS

P: Subject to the approval of the Head of School.

PROD389-21S1 (C) Semester 1**PROD389-21W (C) Whole Year (S1 and S2)****PROD389-21S2 (C) Semester 2****Tāura | Postgraduate**

Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.

INOV 680 Product Innovation Project

90 Points 0.7500 EFTS

Students will carry out independent product/service innovation and development in their chosen area, mentored by an industrial supervisor and an experienced academic with expertise relevant to the topic.

P: Approval by the Director of the Centre for Entrepreneurship, based upon the student identifying an appropriate project mentor and supervisor.

RP: PROD 601

INOV680-21A (C) Starts Anytime*Limited entry. See limitation of entry regulations.***PROD 601 Design Critique and Research Methods**

15 Points 0.1250 EFTS

Two main components of Research Methods and Design Critique are covered in this course. Research Methods will provide knowledge on the academic research endeavour, necessary for any postgraduate student; how to write a research proposal, define design problems and research methodologies - including Kaupapa Māori perspectives on research methodology and processes. Design Critique will contribute to the development of critical enquiry and thinking into design. This part will provide a holistic approach in evaluation of designed products and services; from the aesthetic to the environmental point of view.

P: Approval of the Head of the School of Product Design

PROD601-21S1 (C) Semester 1**PROD 602 Systems Thinking for Product Design**

15 Points 0.1250 EFTS

Applied systems thinking for product and service design. Construction and analysis of linear and non-linear models of interconnected systems relevant to product design such as growth/decay, population dynamics, social media behaviours, urban dynamics, sensor-response feedback loops, supply and demand, pollution modelling, consumer and end-user behaviours.

P: Approval of the Head of the School of Product Design

PROD602-21S1 (C) Semester 1**PROD 611 Design and Manufacture**

15 Points 0.1250 EFTS

Understanding a designer's role in and approach to classic and contemporary manufacturing processes, including the implications of this on Māori and other indigenous knowledges. Identify optimal materials and production processes necessary to create specific product designs, details and functionalities. Translate the knowledge and skills attained into alternative process thinking and consequent applications as products or systems. Provide a holistic approach to product design and manufacturing that considers values such as manaakitanga (inclusiveness) and kaitiakitanga (sustainability) in the evaluation of designed products and processing from aesthetics to environmental impact.

P: Approval of the Head of the School of Product Design

PROD611-21S1 (C) Semester 1**PROD 612 Bio-inspired design**

15 Points 0.1250 EFTS

Form, function, and process-based inspiration from biology in design. Biomimetics, bionics and bio-inspired technology. Students will be required to study models, systems, and elements of nature for the purpose of solving complex human problems. Top-down and bottom-up

design processed in bio-inspired design. Understand bio-inspired design and its relationship to Mātauranga Māori. Systematic identification of key aspects of biological design as found in living systems and organisms taken from scientific literature. Transfer of biological terms into technology based design requirements in fields including locomotion, air- and hydrodynamics, anti-fouling, architecture, adhesion, swarm intelligence and energy recovery. Students will be asked to study existing examples and develop their own individual design based on a specific living organism.

P: Approval of the Head of the School of Product Design

PROD612-21S2 (C) Semester 2

PROD 614 Design Ethics

15 Points 0.1250 EFTS

This course intends to provoke thought and reflection over the role of the designer and their responsibilities. Literature on the subject of ethics, morality and responsibility in product design is reviewed and discussed and will include Māori and indigenous perspectives. The key agents who possess responsibility in design are also explored. The content of this course serves a variety of important roles in the education of masters' level designers. Firstly the class will develop an understanding of the concepts of ethics in design in a practical sense, including how this impacts on Māori and indigenous understandings, for those conducting design activities (and particularly design research activities); introducing the concepts of participant's informed consent and reasonable measures for ensuring compliance in a design project. Secondly, it will introduce students to the many aspects of ethical and moral debate within the contemporary product design industry, ranging from concerns related to sustainability and 'kaitiakitanga' to the idea of responsibility in design to the concept of "good works" in design. Lastly through the nature of the course and its assessment it will develop student's research competencies, communication and debating skills, all core skillsets in the contemporary designer's tool kit.

P: Approval of the Head of the School of Product Design

PROD614-21S2 (C) Semester 2

PROD 621 Games for Health & Wellbeing

15 Points 0.1250 EFTS

This course will provide students with a thorough understanding of designing serious games for health and wellness. Students will use the knowledge and skills developed in this course to create games as tools for improving health and wellbeing, from supporting healthy lifestyle habits and motivating physical activity, to management of illness and as training materials for healthcare professionals to support their delivery of care.

P: Approval of the Head of the School of Product Design

PROD621-21S1 (C) Semester 1

PROD 622 Immersive Collaborative Play and Design

15 Points 0.1250 EFTS

Design thinking for immersive collaboration focusing on play and design applications in the contexts of both academic research and business. Learn and apply some aspects of Kaupapa Māori methodology, human-centred design principle, rapid prototyping and digital prototyping for an immersive interactive experience. Explore different collaborative design processes, design cycle and integrate the immersive design tools. Apply research methods relevant for validating the interaction, experience, or product design to support immersive collaboration. Mini-hackathon for an iterative process of ideation, goal setting, market research, building, product pitching.

P: Approval of the Head of the School of Product Design

PROD622-21S2 (C) Semester 2

PROD 631 Fragrance Design

15 Points 0.1250 EFTS

The course covers theory and practice of fragrance design, both in terms of fragrance (perfume) products and incorporation of fragrance into other formulated products e.g. personal care products, household cleaning products, and industrial products.

P: Approval of the Head of the School of Product Design

PROD631-21S2 (C) Semester 2

PROD 632 Special Topics in Cosmetic Product Formulation

15 Points 0.1250 EFTS

The course addresses eight distinct yet interrelated topics, which are based on trends in cosmetic product formulation. The topics range from identifying advance technology-driven processes and raw materials to quality assurance and preservation. Formulating products with ingredients of natural origin are discussed while considering Mātauranga Māori (traditional knowledge) around rongoa (native flora herbal preparations). Additionally, the development of sustainable cosmetic formulations are addressed aligning to the values of kaitiakitanga. The content continues with other important aspects including: product evaluation, claims substantiation and safety assessment.

P: Approval of the Head of the School of Product Design

PROD632-21S2 (C) Semester 2

PROD 690 Product Design Thesis

120 Points 1.0000 EFTS

Students will carry out independent research and advanced design practice in their chosen area, supervised by an experienced academic with expertise relevant to the topic.

P: Approval by the Head of School, based upon the student identifying an appropriate thesis supervisor.

PROD690-21A (C) Starts Anytime

Part-time enrolment (0.65 EFTS) is available on approval.

PROD 790 Product Design PhD

120 Points 1.0000 EFTS

Product Design PhD

P: Subject to approval of the Head of School and Dean of Postgraduate Research as per UC Regulations for Doctoral Studies

PROD790-21A (C) Starts Anytime

Professional Accounting

Business Taught Masters Programme

Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.

MBAZ 602 Business Economics

15 Points 0.1250 EFTS

This course introduces and applies economic principles, concepts and ways of thinking. The focus is on using the lens of economics to view the world. By doing this we gain insight and understanding into people, organisations and issues that matter to society.

P: Subject to the approval of the Programme Director

R: MBAD 604, MBUS 614

MBAZ602-21T1 (C) 01 Feb 2021 - 25 Apr 2021

MBAZ602-21T3 (C) 30 Aug 2021 - 21 Nov 2021

MBAZ602-21X (D) 30 Aug 2021 - 21 Nov 2021

MBAZ 603 Managerial Finance

15 Points 0.1250 EFTS

The application of financial techniques, tools and principles needed to assess the performance of projects and organisations and consider the economic viability of their ongoing success. A consideration of financial risk management and the process required to minimize such risks in different organisational settings.

P: Subject to the approval of the Programme Director

R: MBUS 621, MBAD 611

MBAZ603-21T1 (C) 01 Feb 2021 - 25 Apr 2021

MBAZ603-21T3 (C) 30 Aug 2021 - 21 Nov 2021

MBAZ 604 Business Research Methods

15 Points 0.1250 EFTS

Business research methods including statistical and qualitative approaches are introduced. Students will develop the knowledge and skills required to undertake academic and professional research in the field of business.

P: Subject to the approval of the Programme Director

R: MBUS 642, MBAD 679

MBAZ604-21T2 (C) 17 May 2021 - 08 Aug 2021

MBAZ 605 Business Law

15 Points 0.1250 EFTS

Covering business law structures and regulations this course provides students with the insight, understanding and practical skills to develop strategic direction and solve business problems while effectively adhering to legal requirements.

P: Subject to the approval of the Programme Director

R: MBUS 634, MBAD 658

MBAZ605-21T1 (C) 01 Feb 2021 - 25 Apr 2021

MBAZ605-21T3 (C) 30 Aug 2021 - 21 Nov 2021

MBAZ 680 Research Project

45 Points 0.3750 EFTS

Provide advanced analytical, theoretical and practically applied business insight and competencies in the areas relevant to the learning objective of the programme.

P: Subject to the approval of the Programme Director

MBAZ680-21A (C) Starts Anytime

MBAZ 681 Internship

45 Points 0.3750 EFTS

Exposure to challenges faced by organisation through experiential learning. This will reinforce and develop knowledge from other MBM or MPA courses by providing students with the opportunity to apply theories to practice. It will also further develop students' communication skills.

P: Subject to the approval of the Programme Director

MBAZ681-21A (C) Starts Anytime

MPAC 601 Professional Accounting Principles

15 Points 0.1250 EFTS

Examines two main areas of professional accountancy, including double entry bookkeeping and law for professional accountants. The course develops the key principles required for those looking to advance through the MPA qualification.

P: Subject to the approval of the Programme Director

MPAC601-21T1 (C) 01 Feb 2021 - 25 Apr 2021

MPAC 602 Advanced Professional Accounting Principles

15 Points 0.1250 EFTS

Examines two main areas of advanced professional accountancy, including advanced financial reporting standard analysis and review and financial risk management. The course develops the advanced principles required for those looking to progress through the MPA qualification.

P: Subject to the approval of the Programme Director

MPAC602-21T2 (C) 17 May 2021 - 08 Aug 2021

MPAC 603 Advanced Management Accounting

15 Points 0.1250 EFTS

To prepare and critically evaluate management accounting information for planning, budgeting, costing, controlling and decision-making by applying contemporary theory, research and practice.

P: Subject to the approval of the Programme Director

MPAC603-21T3 (C) 30 Aug 2021 - 21 Nov 2021

MPAC 604 Advanced Financial Accounting

15 Points 0.1250 EFTS

A consideration of the regulatory environment for financial reporting in New Zealand and internationally, discusses the theoretical and applied principles, current financial reporting standards underlying accounting practice and looks at contemporary developments in financial reporting.

P: Subject to the approval of the Programme Director

MPAC604-21T3 (C) 30 Aug 2021 - 21 Nov 2021

MPAC 605 Taxation

15 Points 0.1250 EFTS

Covers concepts of the taxation system and its administration in New Zealand. Creating the ability to critically analyse, manage and apply taxation requirements within a professional accounting career.

P: Subject to the approval of the Programme Director

MPAC605-21T2 (C) 17 May 2021 - 08 Aug 2021

MPAC 608 Auditing

15 Points 0.1250 EFTS

Covering the nature and purpose of auditing and the regulatory and professional environment in which it operates. Developing a critical understanding of the auditing process and selected contemporary research issues in auditing.

P: Subject to the approval of the Programme Director

R: MBAD 604, MBUS 614

MPAC608-21T3 (C) 30 Aug 2021 - 21 Nov 2021

MPAC 623 Applied Research in Management Accounting

15 Points 0.1250 EFTS

This course will draw on a range of economic, management, psychological and sociological theories of human and organisational behaviour to investigate the design and use of management accounting practices and systems. External and internal factors (e.g., technological change) and the impact on human and organisational behaviour as well as organisational outcomes will be researched.

P: (1) MPAC 603; (2) MBAZ 604

R: ACCT 623

MPAC623-21S2 (C) Semester 2

MPAC 624 Applied Research in Corporate Governance

15 Points 0.1250 EFTS

This course will explore several issues around corporate governance. Students will need to draw on a range of theories as they learn about and critique research on corporate governance, and trends in corporate governance regulations and practices. Ultimately, the aim of the course is to provide students with a framework that they can then apply as they undertake a project on corporate governance.

P: (1) 30 points from MPAC 601, MPAC 602, MPAC 603, MFIN 603; (2) MBAZ 604

R: ACCT 624, FINC 650

MPAC624-21S2 (C) Semester 2

MPAC 626 Applied Research in Taxation Compliance

15 Points 0.1250 EFTS

MPAC626 is a critical examination of advanced aspects of taxation theory, law, and practice from a tax compliance perspective with a focus on undertaking applied research. The course draws upon theories and research techniques from accounting and other disciplines, including economics, law, psychology, and sociology. It focuses primarily upon journal articles, books and other research papers which are primarily from Australasia, North America, and Europe.

P: (1) 45 points from MPAC 601, MPAC 602, MPAC 603, MPAC 604, MPAC 605, MPAC 608; (2)

MBAZ 604

R: ACCT 626

MPAC626-21S2 (C) Semester 2

MPAC 648 Methodological and Empirical Aspect of Financial Accounting Research

15 Points 0.1250 EFTS

MPAC648 focuses on the analysis of a selected range of contemporary issues in financial accounting: capital markets research, equity valuation, bankruptcy prediction and statistical activity cost analysis. The focus is holistic meaning we consider the theoretical backing of research questions and discuss suitable methodologies so that logical and scientifically consistent arguments and solutions can be presented.

P: (1) MPAC 604; (2) MBAZ 604

R: ACCT 648

MPAC648-21S1 (C) Semester 1

MPAC 658 Applied Research in Auditing

15 Points 0.1250 EFTS

This course will apply advanced theories and concepts from the field of auditing to a research question. The research question will be of practical application to professional practice in auditing. Students will explain and critique trends in auditing concepts and practice.

P: (1) MPAC 608; (2) MBAZ 604

R: ACCT 658

MPAC658-21S1 (C) Semester 1

Professional and Community Engagement

*School of Humanities and Creative Arts***PACE 225 Workplace Skills and Corporate Social Responsibility**

15 Points 0.1250 EFTS

As a student, you will be given the opportunity to work with a business to formulate a project proposal that furthers its corporate social responsibility objectives through community engagement. Making a difference to a community as well as to your own career and workplace skills development are key objectives of this course. The course is open to students from all disciplines.

P: Any 60 points at any level from any subject.

PACE225-21S1 (C) Semester 1

Limited entry. See limitation of entry regulations.

PACE 295 Internship

15 Points 0.1250 EFTS

An opportunity to apply the skills you are acquiring through your academic study to a project designed by a local company or community group in New Zealand, or internationally.

P: Any 90 points at any level from any subject, special application and interview, and permission of the Internship Director.

R: ARTS 295

RP: PACE 195 - Professional and Community Engagement

PACE295-20SU2 (C) Summer (Nov 20)

PACE295-21A (C) Starts Anytime

PACE295-21S1 (C) Semester 1

PACE295-21S2 (C) Semester 2

PACE 395 Internship

30 Points 0.2500 EFTS

What can you do with your major? With your degree? The purpose of the internship course is to explore both the ideological and practical assumptions guiding this question. The course is designed to be a critical, theoretical and "real-world" examination of the practices and ideologies inherent in both community and business organisations. You will apply the analytical skills acquired through your major, and through class seminars and readings, to a project designed by a local company or community group. Please check out the website for further information and specific project descriptions: www.arts.canterbury.ac.nz/internships

P: 150 points, special application and interview, and permission of the Internship Director.

R: ARTS 395

EQ: ARTS 395

PACE395-20SU2 (C) Summer (Nov 20)

PACE395-21A (C) Starts Anytime

PACE395-21S1 (C) Semester 1

PACE395-21S2 (C) Semester 2

Limited entry. See limitation of entry regulations. A student will be selected for a specific project. Only students accepted for projects will be allowed into the course. Please go to <http://www.arts.canterbury.ac.nz/internships> for more information.

Tāura | Postgraduate

Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.

PACE 495 Professional and Community Engagement Internship

30 Points 0.2500 EFTS

A professional internship placement.

P: Special application and interview, and permission of the Internship Director.

R: ARTS 495

EQ: ARTS 495

PACE495-20SU2 (C) Summer (Nov 20)

PACE495-21A (C) Starts Anytime

PACE495-21A (D) Starts Anytime

PACE495-21W (C) Whole Year (S1 and S2)

PACE495-21S1 (C) Semester 1

PACE495-21S2 (C) Semester 2

PACE495-21X (D) 27 Sep 2021 - 06 Feb 2022

PACE495-21X1 (D)

PACE495-21X2 (D)

Psychology

Department of Psychology

PSYC 105 Introductory Psychology - Brain, Behaviour and Cognition

15 Points 0.1250 EFTS

An introduction to the brain and its role in thought and behaviour, and to perception, learning and cognition.

R: PSYC 103, PSYC 104

PSYC105-21S1 (C) Semester 1

PSYC105-21S1 (D) Semester 1

PSYC 106 Introductory Psychology - Social, Personality and Developmental

15 Points 0.1250 EFTS

An introduction to social psychology, developmental psychology, personality and individual differences, and abnormal psychology.

R: PSYC 103, PSYC 104

PSYC106-21SU1 (D) Summer (Jan 21)

PSYC106-21S2 (C) Semester 2

PSYC106-21S2 (D) Semester 2

PSYC 206 Research Design and Statistics

15 Points 0.1250 EFTS

An introduction to the theory and practice of statistics in psychology. For psychological science, statistics is a framework for making rational decisions on the basis of data. The course will emphasize the concepts of logic underlying statistics, and provide worked-through examples that illustrate those concepts. An important theme is that anyone can learn statistics - no math beyond basic algebra is required. This is a prerequisite to advancing in psychology beyond PSYC 200-level.

P: At least 15 points in 100-level Psychology and at least 45 points overall

PSYC206-20SU2 (D) Summer (Nov 20)

PSYC206-21S1 (C) Semester 1

PSYC 207 Developmental Psychology

15 Points 0.1250 EFTS

This course will examine human development from conception to late adolescence, and will cover neuropsychological, cognitive, biological, behavioural and socio-emotional development. Emphasis will be given to major theoretical influences that have shaped current thinking about child and adolescent development, as well as research methods and techniques that are used to study development. Key developmental issues will be considered in relation to both typical and atypical patterns of development.

P: PSYC 104, or PSYC 105 and PSYC 106

PSYC207-21S1 (C) Semester 1

PSYC 208 Cognition

15 Points 0.1250 EFTS

This is an introductory course in cognitive psychology: the science of how the mind and brain are organised to produce intelligent human thought processes. Topics include visual cognition, attention, memory, problem solving and expertise, reasoning and decision making, and language comprehension.

P: PSYC 104, or PSYC 105 and PSYC 106, or with the approval of the Head of Department, a pass in a professional year of Engineering, or in approved courses in Computer Science, Linguistics, or Philosophy

PSYC208-21S2 (C) Semester 2

PSYC 209 Sensation and Perception

15 Points 0.1250 EFTS

A broad treatment of human sensation and perception, with the main emphasis on vision, but also including the other senses.

P: PSYC 104, or PSYC 105 and PSYC 106, or with the approval of the Head of Department, a pass in a professional year of Engineering, or in approved courses in Art, Art History, or Computer Science

PSYC209-21S1 (C) Semester 1

PSYC 211 Personality

15 Points 0.1250 EFTS

This course provides an overview of classic and contemporary theory and research in personality. Approaches to understanding personality will include Freudian and Neo-Freudian perspectives, genetic and evolutionary perspectives, biological perspectives, existential and humanistic perspectives, trait perspectives, and behavioural perspectives. In the laboratory sessions students will take, analyze, and interpret various personality assessment instruments.

P: PSYC 104, or PSYC 105 and PSYC 106

PSYC211-21S2 (C) Semester 2

PSYC 213 Introduction to Social Psychology

15 Points 0.1250 EFTS

This course is designed as an introductory overview of classical and contemporary social psychology. Social psychology is the scientific study of how our thoughts, feelings, and behaviours are influenced by the real or imagined presence of others. The lectures provide a broad overview of several key topics in the field including the self, social perception, intergroup relations, attitudes and persuasion, social influence, group processes, close relationships, prosocial behaviour, and aggression. Within each of these topics, we also consider the influence of culture and application to the real world. The course also contains a laboratory component in which students work in small groups conducting social psychology research projects.

P: PSYC 105 and PSYC 106

R: PSYC 332

PSYC213-21S2 (C) Semester 2

PSYC 330 Forensic Psychology

15 Points 0.1250 EFTS

This course is an introduction to the theory and practice of forensic psychology, including the potential role of Psychology graduates in the criminal justice system. There will be a particular emphasis on the contribution that psychological inquiry and practice can make in efforts to: - Understand the causes of antisocial behavior, including developmental processes - Develop and evaluate effective psychological interventions for antisocial behaviour - Predict who is likely to reoffend - Detect and investigate crime - Understand the "process" or "cycle" of offending in the lives of repeat offenders There is a laboratory component that will give you an understanding of how the theoretical components of the course are applied in real-world settings. Some of these labs will be delivered by guest lecturers working on the "frontline" of these efforts to reduce the harm caused by antisocial behaviour in New Zealand.

P: PSYC 206 or 60 points at 200 level from Schedules C or E of the Bachelor of Criminal Justice.

PSYC330-21S2 (C) Semester 2

PSYC 333 Biological Psychology

30 Points 0.2500 EFTS

Neural and biochemical bases of behaviour including topics in behavioural pharmacology, behavioural neuroscience, and neuropsychology. Laboratory classes cover basic brain structure and function.

P: PSYC 206.

RP: 15 further points from PSYC 200/300.

PSYC333-21S1 (C) Semester 1

PSYC 335 Abnormal Psychology

30 Points 0.2500 EFTS

An introductory course in abnormal psychology covering both the traditional and modern approaches to the field.

P: PSYC 206.

RP: PSYC 207, PSYC 211

PSYC335-21W (C) Whole Year (S1 and S2)

PSYC 336 Industrial and Organisational Psychology

15 Points 0.1250 EFTS

This course provides an introduction to the field of Industrial Organisational Psychology (I/O Psychology). It will examine the applications of psychological theory and research to the workplace, in particular the contribution of I/O Psychology to enhanced organizational performance and improved employee attitudes. It is a prerequisite for entry into the postgraduate programme in Industrial/Organizational Psychology.

P: PSYC 206.

RP: PSYC 211, 15 further points from PSYC 200

PSYC336-21S1 (C) Semester 1

PSYC 339 Health Psychology and Behaviour Change

30 Points 0.2500 EFTS

This is an introductory course in health psychology. The focus is on the contributions of behavioural science to the promotion of health and the treatment of illness. Topics covered include determinants of health-related behaviours (e.g. smoking, diet), individual and population approaches to behaviour change, stress and coping, adjustment to illness.

P: PSYC 206

PSYC339-21S1 (C) Semester 1**PSYC 340 Cognitive Psychology**

15 Points 0.1250 EFTS

An advanced seminar based course that focuses on current major developments and issues in cognitive psychology.

P: PSYC 208

PSYC340-21S2 (C) Semester 2**PSYC 341 Environmental Psychology**

15 Points 0.1250 EFTS

Theories and principles from across psychology are presented to explain the causes of environmentally destructive behaviour, and generate solutions for a sustainable future. This course will teach you principles of behaviour change, and how you can apply them in your home, workplace, and community. PSYC341 is designed to be practical and engaging. It includes weekly online exercises and discussions, and an applied behaviour change project.

P: Any 120 points at 100 level from any subject.

RP: Any of BIOL 112, GEOG 106, GEOG 107, GEOG 108

PSYC341-21S2 (C) Semester 2**PSYC 344 Research Methods**

30 Points 0.2500 EFTS

An advanced survey of research methods, including the design and conduct of research studies and the analysis and reporting of data in Psychology.

P: PSYC 206

PSYC344-21S2 (C) Semester 2**PSYC 346 Judgement and Decision Making**

15 Points 0.1250 EFTS

The course covers risky and non-risky decision-making, theories of choice, and the way in which people make biased decisions and use short-cuts to make choices. We shall also examine decision criteria: reinforcement, subjective well-being, the value of life. Application in consumer and investment decisions, choosing between future and present good and self-control, and medical decisions will be a theme throughout.

P: PSYC 206, or equivalent preparation

PSYC346-21S1 (C) Semester 1**PSYC 348 Contemporary Issues in Family Psychology**

15 Points 0.1250 EFTS

This course will explore some contemporary and controversial issues in research and theory in Family Psychology. Topics covered may include matters such as child abuse; discipline and punishment; role of family in adolescent development and socialization; multi-systemic family therapy and other family interventions. The emphasis through will be on recent research and theorizing about the selected topics, on the critical evaluation of research and theory, and on its applications to policies and family therapies.

P: PSYC 206 or 60 points at 200 level from the Health Sciences or Arts schedule.

PSYC348-21S1 (C) Semester 1**PSYC 349 Special Topic**

15 Points 0.1250 EFTS

P: PSYC 206

PSYC349-21S2 (C) Semester 2**PACE 395 Internship**

30 Points 0.2500 EFTS

What can you do with your major? With your degree? The purpose of the internship course is to explore both the ideological and practical assumptions guiding this question. The course is designed to be a critical, theoretical and "real-world" examination of the practices and ideologies inherent in both community and business organisations. You will apply the analytical skills acquired through your major, and through class seminars and readings, to a project designed by a local company or community group. Please check out the website for further information and specific project descriptions: www.arts.canterbury.ac.nz/internships

P: 150 points, special application and interview, and permission of the Internship Director.

R: ARTS 395

EQ: ARTS 395

PACE395-20SU2 (C) Summer (Nov 20)**PACE395-21A (C) Starts Anytime****PACE395-21S1 (C) Semester 1****PACE395-21S2 (C) Semester 2**

Limited entry. See limitation of entry regulations. A student will be selected for a specific project. Only students accepted for projects will be allowed into the course. Please go to <http://www.arts.canterbury.ac.nz/internships> for more information.

PSYC 404 Research in Human and Animal Neuropsychology

30 Points 0.2500 EFTS

The broad multidisciplinary nature of the study of brain and behaviour, including evidence from human and animal work. Aspects of memory and a range of neuropsychological disorders are covered.

P: Subject to approval of the Head of Department.

PSYC404-21W (C) Whole Year (S1 and S2)

Limited entry. See limitation of entry regulations.

PSYC 416 Cognitive Psychology

15 Points 0.1250 EFTS

The objectives of this course are to extend the knowledge of cognitive psychology and its content, theory and methods by discussing recent developments, by close study of classic work, and by considering the application of cognitive psychology to topical community issues.

P: Subject to approval of the Head of Department.

R: PHIL 476

PSYC416-21S2 (C) Semester 2**PSYC 433 Research in Behavioural Pharmacology and Teratology**

30 Points 0.2500 EFTS

An introduction to the effects of drugs on behaviour (behavioural pharmacology) and brain/behavioural development (behavioural teratology) with a particular focus on drugs and other chemicals that are used to treat psychological disorders and to enhance memory, and drugs that are abused and may lead to dependence.

P: Entry subject to the approval of the Head of Department.

RP: PSYC 333 (or equivalent) is strongly recommended

PSYC433-21W (C) Whole Year (S1 and S2)

Limited entry. See limitation of entry regulations.

PSYC 434 Health Psychology: Theories & Interventions

15 Points 0.1250 EFTS

Contemporary research and theory on how people achieve and maintain good health, why they become ill, and how they respond to illness. This is an advanced course in health psychology.

R: PSYC 437

RP: PSYC 339 Health Psychology & Behaviour Change

PSYC434-21S2 (C) Semester 2**PSYC 441 Special Topic**

15 Points 0.1250 EFTS

PSYC441-21S2 (C) Semester 2**PSYC 442 Clinical Practice Guidelines and Introduction to Cognitive Behaviour Assessment**

30 Points 0.2500 EFTS

An introduction to the ethics and practice guidelines that support the provision of Cognitive Behaviour Therapy (CBT) to individuals with mental health and addiction difficulties. The course will focus on interviewing and engagement techniques. The approach taken will be informed by the Hui process, using Māori concepts to inform engagement and assessment with both Māori and non-Māori. This approach will be further supported by teaching on bicultural competence and confidence and a Treaty of Waitangi workshop. Key psychological mechanisms for common mental health disorders will be addressed, with a focus on developing CBT formulations. Students will be introduced to cognitive behavioural assessment and formulation, including functional analysis techniques and awareness of key marginalisation data for health outcomes for Māori.

P: Subject to the approval of the Programme Director.

PSYC442-21S1 (C) Semester 1

Limited entry. See limitation of entry regulations.

PSYC 443 Cognitive Behaviour Therapy Case Conceptualisation and Intervention

30 Points 0.2500 EFTS

This course offers further opportunity to develop skills in CBT formulation, with a focus on CBT case conceptualisation and intervention. It builds on the interviewing skills developed in PSYC442, including the engagement strategies for working with Māori and other client groups. Upon completion students should be able to critically integrate CBT assessment and treatment strategies.

P: Subject to the approval of the Programme Director.

PSYC443-21S2 (C) Semester 2

Limited entry. See limitation of entry regulations.

PSYC 452 Family Psychology

15 Points 0.1250 EFTS

A comprehensive examination of adult development within a family context.

P: Subject to approval of the Head of Department.

PSYC452-21S2 (C) Semester 2*Limited entry. See limitation of entry regulations.***PSYC 458 Research in Visual Attention and Perceptual Neuropsychology**

15 Points 0.1250 EFTS

This course is designed to provide a relatively in-depth understanding of current findings in selective areas of visual dynamics and perceptual neuropsychology. The goal is to facilitate students to develop both an understanding of the fields and an interest in pursuing some aspects of them in the future. Topics covered will include visual selection and memory, visual awareness, the representation of object and space, face recognition, and others.

P: Subject to approval by the Head of Department

PSYC458-21S1 (C) Semester 1**PSYC 460 Research Methods in Psychology**

15 Points 0.1250 EFTS

Postgraduate course in statistics and research methods.

P: Subject to approval of the Head of Department.

R: PSYC 601

EQ: PSYC 601

PSYC460-21S1 (C) Semester 1**PSYC 466 The Psychology of Intergroup Relations**

15 Points 0.1250 EFTS

To provide students with an advanced overview of theories and empirical research on the social psychology of intergroup relations.

P: Subject to the approval of the Head of Department.

RP: A Bachelors degree majoring in Psychology and PSYC 332 Social Psychology

PSYC466-21S1 (C) Semester 1**PSYC 468 Moral Psychology**

15 Points 0.1250 EFTS

This course will introduce postgraduate students to the psychology of morality. Topics will include methods and approaches, tolerance of political differences, reasoning about morality, character and reputation, morality in the economy, judging intentions, free will, evolution and cultural approaches, and moral diversity.

R: PHIL 499

RP: PSYC 211 Personality Psychology

PSYC468-21S1 (C) Semester 1**PSYC 470 Research Project**

30 Points 0.2500 EFTS

The Research Project is a compulsory component of the BSc(Hons) degree and may be included as one of the courses for the BA(Hons) degree and PGDipSci and Part I of a Masters degree. The project requires the completion of a research project where the work is performed under the close direction of a designated supervisor. Intending project students may discuss ideas in the first instance with the 400-level Coordinator.

P: Subject to approval of the Head of Department.

PSYC470-21W (C) Whole Year (S1 and S2)**PSYC470-21CY (C) Cross Year***Limited entry. See limitation of entry regulations.***PSYC 471 Special Topic:**

15 Points 0.1250 EFTS

Information available from HoD / PSYC400 Course Coordinator in Psychology

P: Subject to approval of the Head of Department

PSYC471-21S2 (C) Semester 2**PSYC 473 The Individual in the Economy**

15 Points 0.1250 EFTS

The course examines how psychology may be applied to public sector decision-making, particularly with regard to financial issues. Topics may include decision-making; distributional justice; psychology of money; subjective well-being of society; valuation of government services; psychology of regulation; tax evasion; saving; psychology of unemployment; Why doesn't socialism work (or does it)?

P: Subject to the approval of the Head of Department.

RP: Bachelor's degree

PSYC473-21S1 (C) Semester 1**PSYC 475 Directed Research in Psychology**

15 Points 0.1250 EFTS

In this course students will work on a research exercise under the close direction and supervision of a staff member. The research undertaken may involve a wide range of activities, e.g., meta-analysis of existing research; quantitative reviews of the effectiveness of outcome research; analyses of existing data archives; replications; and small-scale data-gathering and analysis projects. Students will be required to prepare a report on their research activity using standard APA style.

P: Subject to approval of the Head of Department

C: PSYC 460, PSYC 461, or PSYC 464

R: PSYC 413; PSYC 415; PSYC 433; PSYC 467; PSYC 470

PSYC475-21W (C) Whole Year (S1 and S2)*Limited entry. See limitation of entry regulations.***PSYC 479 Special Topic: Developmental Psychology in the Study of Sleep**

15 Points 0.1250 EFTS

The purpose of this course is for students to gain an understanding of the intersection between sleep and developmental psychology across the lifespan, with a particular focus across the periods of infancy to adolescence. There will be an emphasis on (i) current empirical research and the relationship between sleep, behaviour and psychological health, or vice versa; and (ii) applied sleep research drawing on the principles of behaviour analysis and cognitive-behavioural theory/therapy.

P: (1) PSYC 344; and (2) PSYC 335

PSYC479-21S1 (C) Semester 1*Limited entry. See limitation of entry regulations.***Tāura | Postgraduate**

Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.

PSYC 601 Research Methods in Psychology

15 Points 0.1250 EFTS

Postgraduate course in statistics and research methods.

P: Subject to approval of the Head of Department.

R: PSYC 460, PSYC 464

PSYC601-21S1 (C) Semester 1**PSYC 641 Advanced Psychopathology**

30 Points 0.2500 EFTS

This course, which is restricted to clinical psychology postgraduate students, is a broad survey of adult and child psychopathology. The focus is on description (including classification, differential diagnosis, epidemiology, etc) etiology, and to some degree assessment. The seminar forms a building block for the next year's focus on intervention.

P: Subject to approval of the Head of Department.

PSYC641-21W (C) Whole Year (S1 and S2)*Limited entry. See limitation of entry regulations.***PSYC 642 Psychometric Assessment Methods**

18 Points 0.1500 EFTS

The objective of the course is to provide an introduction to the theory and practice of psychometric assessment in clinical work. Students will improve their ability to select, administer, score and interpret a range of psychometric assessment tools. The first semester provides an introduction to neuropsychological assessment, including intelligence testing, and assessment of the brain-behaviour relationship. The second semester familiarises you with the more frequently used psychometric tests of behavioural and emotional functioning, integrating them within a broad multi-modal, multi-informant understanding of your client.

P: Subject to approval of the Head of Department.

PSYC642-21W (C) Whole Year (S1 and S2)*Limited entry. See limitation of entry regulations.***PSYC 643 Year 1 Practicum**

24 Points 0.2000 EFTS

The course objective is to provide the opportunity for students to apply the science and practice of clinical psychology. Students will develop their understanding of the 'art of interviewing' in a manner that is client centred, evidence-based, safe, ethical, and culturally relevant. The practicum component provides students the opportunity to undertake assessment interviews, psychometric assessment, observation of treatment, and report writing.

P: Subject to approval of the Head of Department.

PSYC643-21W (C) Whole Year (S1 and S2)*Limited entry. See limitation of entry regulations.***PSYC 651 Psychotherapeutic Methods**

30 Points 0.2500 EFTS

This course, which is restricted to clinical psychology postgraduate students, provides students with a basic understanding of the conceptual foundations of cognitive and behavioural therapies for child, adolescent and adult disorders. To this end, the course will explore the theory,

application and processes of cognitive and behavioural intervention approaches with reference to specific psychological disorders or problematic behaviour patterns, as well as highlight pertinent empirical data on the effectiveness of the various psychological interventions reviewed.

P: Subject to approval of the Head of Department.

PSYC651-21W (C) Whole Year (S1 and S2)

PSYC 653 Year 2 Practicum

30 Points 0.2500 EFTS

The course objective is to provide the opportunity for students to apply the science and practice of clinical psychology in the context of practicum placements. The focus for the year 2 practicum is on students gaining further experience with psychological assessment, and gaining some experience with psychological intervention/therapy, with students being given the opportunity to observe and participate in intervention/therapy. Students will participate in two 12-week practicum placements in the community of two days per week in Terms 2-4. Students are also expected to complete a practicum at the Psychology Centre of approximately two days a week for Term 1.

P: Subject to approval of the Head of Department.

PSYC653-21X (C) 08 Feb 2021 - 21 Nov 2021

PSYC 654 Comprehensive Exam in Clinical Psychology

12 Points 0.1000 EFTS

P: Subject to approval of the Head of Department.

PSYC654-21W (C) Whole Year (S1 and S2)

PSYC 661 Advanced Topics in Clinical Psychology I

30 Points 0.2500 EFTS

This course is a survey of advanced topics in clinical psychology that builds upon previous courses in psychopathology assessment, and professional practice. The objectives of the course are to: - Increase specialist knowledge of areas of clinical psychology that have not been addressed more fully in the programme and which require more foundational knowledge - Develop more sophisticated assessment knowledge and skills regarding social, cultural and ethical issues. By the end of the course, students will have more knowledge regarding specific specialist areas in clinical psychological, will have a greater understanding of cultural, social and ethical factors impacting on psychological presentation and will have a more integrate knowledge of assessment and practice.

P: (i) PSYC 651, PSYC 653, PSYC 654 (2) Entry is subject to approval of the Head of Department.

PSYC661-21W (C) Whole Year (S1 and S2)

PSYC 662 Advanced Topics in Clinical Psychology II

30 Points 0.2500 EFTS

This course is a survey of advanced practices in clinical psychology which builds on previous courses in psychological intervention. The objectives of the course are to: - Increase specialist knowledge in advanced intervention methods. - Learn more about interventions for specific psychological problems - Integrate theory and intervention for specific psychological problems. By the end of the course, students will have more knowledge regarding specific psychological interventions, their theoretical foundations and techniques.

P: (i) PSYC 651, PSYC 653, PSYC 654 (2) Entry is subject to approval of the Head of Department

PSYC662-21W (C) Whole Year (S1 and S2)

PSYC 670 Internship in Clinical Psychology

60 Points 0.5000 EFTS

Opportunity for students to apply the science and practice of clinical psychology in a practical setting, the internship year is two full-time half-year clinical placements. Limited to students already admitted to the clinical psychology programme.

P: PSYC 651, PSYC 653, PSYC 654. Entry is subject to Head of Department approval.

C: PSYC 661, PSYC 662.

PSYC670-21A (C) Starts Anytime

PSYC 671 Internship in Clinical Psychology A - Part-time

30 Points 0.2500 EFTS

Opportunity for students to apply the science and practice of clinical psychology in a practical setting. The internship year is normally two full-time half-year clinical placements or, with permission of the Clinical Director, two part-time one year clinical placements (PSYC671 and PSYC672). Limited to students already admitted to the clinical psychology programme.

P: (i) PSYC 651, PSYC 653, PSYC 654 (2) Entry is subject to approval of the Head of Department

C: PSYC 661, PSYC 662

R: PSYC 670

PSYC671-21A (C) Starts Anytime

PSYC 672 Internship in Clinical Psychology B - Part-time

30 Points 0.2500 EFTS

Opportunity for students to apply the science and practice of clinical psychology in a practical setting. The internship year is normally two full-time half-year clinical placements or, with permission of the Clinical Director, two part-time one year clinical placements (PSYC671 and PSYC672). Limited to students already admitted to the clinical psychology programme.

P: PSYC 651, PSYC 653, PSYC 654, PSYC 671

C: PSYC 661, PSYC 662

R: PSYC 670

PSYC672-21A (C) Starts Anytime

PSYC 690 MA Thesis

120 Points 1.0000 EFTS

P: Subject to approval of the Head of Department.

PSYC690-21A (C) Starts Anytime

Part-time enrolment (0.65 EFTS) is available on approval.

PSYC 695 MSc Thesis

120 Points 1.0000 EFTS

P: Subject to approval of the Head of Department.

PSYC695-21A (C) Starts Anytime

PSYC 790 Psychology PhD

120 Points 1.0000 EFTS

P: Subject to approval of the Head of Department.

PSYC790-21A (C) Starts Anytime

*Part-time enrolment (0.65 EFTS) is available on approval. *From 1 January 2008, international students who are residing in New Zealand on a NZ Immigration Study Visa pay the Domestic Fee for this course. International fees apply for all other courses.*

Russian

School of Language, Social and Political Sciences

RUSS 130 Elementary Russian Language A

15 Points 0.1250 EFTS

Russian language course for absolute beginners, i.e. students with no knowledge of Russian, based on the communicative approach.

R: RUSS 101

RUSS130-21S1 (C) Semester 1

RUSS130-21S1 (D) Semester 1

RUSS 131 Elementary Russian Language B

15 Points 0.1250 EFTS

A Russian language course that follows on from RUSS130, based on the communicative approach.

P: RUSS 130

R: RUSS 101

RUSS131-21S2 (C) Semester 2

RUSS131-21S2 (D) Semester 2

RUSS 230 Intermediate Russian Language A

15 Points 0.1250 EFTS

This is the first of two intermediate Russian language courses. It aims at extending vocabulary and grammatical structures to discuss and write about simple topics in Russian culture.

P: RUSS 131, or placement test.

R: RUSS 201

RUSS230-21S1 (C) Semester 1

RUSS230-21S1 (D) Semester 1

RUSS 231 Intermediate Russian Language B

15 Points 0.1250 EFTS

This is the second of two intermediate Russian language courses. It extends the reading, writing and discussion skills acquired in RUSS230 and places greater emphasis on conversation skills.

P: RUSS 230, or placement test.

R: RUSS 201

RUSS231-21S2 (C) Semester 2

RUSS231-21S2 (D) Semester 2

RUSS 235 Tsardom to Empire: Russian History 1480 to 1917

15 Points 0.1250 EFTS

This course explores aspects of social, political, economic, cultural, religious, and intellectual history of Russia prior to 1917, with a particular emphasis on the autocratic tradition as developed from 1480 onwards. The course also investigates the making of the Russian Empire while also examining ways in which political forces unique to Russia shaped the country's cultural specificity in the European context.

P: Any 15 points at 100 level from EURA, HIST, or RUSS, or any 60 points at 100 level from the Schedule V of the BA.

R: HIST 138, HIST 235, HIST 335, RUSS 111, RUSS 235, RUSS 335, EURA 235, EURA 335

RP: HIST 136 or HIST 137 or HIST 133

EQ: HIST 235, EURA 235

RUSS235-21S2 (C) Semester 2

PACE 395 Internship

30 Points 0.2500 EFTS

What can you do with your major? With your degree? The purpose of the internship course is to explore both the ideological and practical assumptions guiding this question. The course is designed to be a critical, theoretical and "real-world" examination of the practices and ideologies inherent in both community and business organisations. You will apply the analytical skills acquired through your major, and through class seminars and readings, to a project designed by a local company or community group. Please check out the website for further information and specific project descriptions: www.arts.canterbury.ac.nz/internships

P: 150 points, special application and interview, and permission of the Internship Director.

R: ARTS 395

EQ: ARTS 395

PACE395-20SU2 (C) Summer (Nov 20)

PACE395-21A (C) Starts Anytime

PACE395-21S1 (C) Semester 1

PACE395-21S2 (C) Semester 2

Limited entry. See limitation of entry regulations. A student will be selected for a specific project. Only students accepted for projects will be allowed into the course. Please go to <http://www.arts.canterbury.ac.nz/internships> for more information.

RUSS 330 Advanced Russian Language A

30 Points 0.2500 EFTS

This is the first of two advanced Russian language courses. It aims at improving students' all-round knowledge of contemporary Russian language and communication skills.

P: RUSS 231, or placement test.

R: RUSS 301

RUSS330-21S1 (C) Semester 1

RUSS 331 Advanced Russian Language B

30 Points 0.2500 EFTS

This is the second of two advanced Russian language courses. It aims at improving students' all-round knowledge of contemporary Russian language and communication skills. In addition, students' translation skills will be enhanced through work on media sources and fictional texts.

P: RUSS 330, or placement test.

R: RUSS 301

RUSS331-21S2 (C) Semester 2

RUSS 335 Tsardom to Empire: Russian History 1480 to 1917

30 Points 0.2500 EFTS

This course explores aspects of social, political, economic, cultural, religious, and intellectual history of Russia prior to 1917, with a particular emphasis on the autocratic tradition as developed from 1480 onwards. The course also investigates the making of the Russian Empire while also examining ways in which political forces unique to Russia shaped the country's cultural specificity in the European context.

P: Any 30 points at 200 level from EURA, HIST, or RUSS, or any 60 points at 200 level from the Schedule V of the BA.

R: HIST 138, HIST 235, HIST 335, RUSS 111, RUSS 235, RUSS 335, EURA 235, EURA 335

EQ: HIST 335, EURA 335

RUSS335-21S2 (C) Semester 2

Tāura | Postgraduate

Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.

LANC 401 In Other Words What? Theory and Practice of Translation

30 Points 0.2500 EFTS

An introduction to Translation Studies for students skilled in two or more languages, including aspects of modern theory and practice in the craft of accurate translation.

P: Subject to approval of the Head of Programme.

LANC401-21S1 (C) Semester 1

RUSS 409 Russian Language

30 Points 0.2500 EFTS

A survey course of Russian post-Soviet language, which enhances further some practical skills, such as translation and comprehension. It studies Russian contemporary slang, idiomatic expressions, loan words from English, and contemporary media. A good knowledge of Russian language is essential.

P: Subject to approval of the Programme Coordinator.

RUSS409-21S2 (C) Semester 2

RUSS 480 Research Essay

30 Points 0.2500 EFTS

In this course, students explore a research topic of their choice under the supervision of an appropriate staff member, subject to approval by the programme coordinator. This course is compulsory for all Honours students.

P: Subject to approval of the Programme Coordinator.

RUSS480-21W (C) Whole Year (S1 and S2)

RUSS 481 Study Abroad in Russia

30 Points 0.2500 EFTS

This course is studied in Russia during Semester One or Semester Two, with supervision from Canterbury. The course content depends on the offerings of the Russian partner university, but must consist of language-focused modules for RUSS481 and culture-focused modules for RUSS482 approved by the Russian Programme Director.

P: Subject to approval of the Programme Coordinator.

RUSS481-21S2 (C) Semester 2

RUSS 482 Study Abroad in Russia

30 Points 0.2500 EFTS

This course is studied in Russia during Semester One or Semester Two, with supervision from Canterbury. The course content depends on the offerings of the Russian partner university, but must consist of language-focused modules for RUSS481 and culture-focused modules for RUSS482 approved by the Russian Programme Director.

P: Subject to approval of the Programme Coordinator.

RUSS482-21S2 (C) Semester 2

RUSS 650 MA Dissertation

60 Points 0.5000 EFTS

MA Dissertation

P: Subject to approval of the Head of Department.

RUSS650-21A (C) Starts Anytime

RUSS650-21S1 (C) Semester 1

RUSS650-21S2 (C) Semester 2

RUSS 690 MA Thesis

120 Points 1.0000 EFTS

P: Subject to approval of the Programme Coordinator.

RUSS690-21A (C) Starts Anytime

Part-time enrolment (0.65 EFTS) is available on approval.

RUSS 790 Russian PhD

120 Points 1.0000 EFTS

P: Subject to approval of the Head of School.

RUSS790-21A (C) Starts Anytime

*Part-time enrolment (0.65 EFTS) is available on approval. *From 1 January 2008, international students who are residing in New Zealand on a NZ Immigration Study Visa pay the Domestic Fee for this course. International fees apply for all other courses.*

Science

College of Science

SCIE 101 Science, Society and Me

15 Points 0.1250 EFTS

In this foundational course, we examine stimulating questions such as what science is, how does science, how is science practiced, how do science, culture and society interact and how science is communicated to differing audiences. This course will draw on a variety of historical and contemporary case-studies, leading edge research, ethical challenges and controversial issues. Students will gain an understanding of the civic roles, responsibilities and influence of science in our Māori, New Zealand, and global communities. Students will learn how to work effectively as a team and communicate successfully to communities and end-users. Students will learn what it means to be a successful scientist in Aotearoa (New Zealand) and the world in the 21st century.

SCIE101-21S2 (C) Semester 2

SCIE 304 Science Communicators

15 Points 0.1250 EFTS

Do you think you could inspire the next generation of scientists? Do you want to improve your communication skills? Would you like to do something that makes a real difference? This course is for students who are passionate and enthusiastic about communicating their subject. You will be assigned to a local school and work with a teacher mentor in their classroom for 9 weeks. Your ultimate goal will be to create and deliver a lesson(s) or activity for the pupils in your class, leaving a memorable experience for them and hopefully inspiring a new generation of scientists. You will receive an induction into classroom work and have the chance to observe pupils and teachers before getting stuck in. This will be a hands-on course in a real work environment and

ideal for anyone considering a possible career in education or science communication. We won't lie - it will be hard work, however, it will also be an experience like no other you will have had at Uni and hopefully a lot of fun! Acceptance by application and selection only.

P: (1) 45 points at 200-level from the majoring requirements for Computer Science or Mathematics; (2) Approval by Head of Department

SCIE304-21S1 (C) **Semester 1**

Science Education

School of Educational Studies and Leadership

Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.

SCED 790 Science Education PhD

120 Points 1.0000 EFTS

P: Subject to approval of the Head of Department.

SCED790-21A (C) **Starts Anytime**

Part-time enrolment (0.65 EFTS) is available on approval. *From 1 January 2008, international students who are residing in New Zealand on a NZ Immigration Study Visa pay the Domestic Fee for this course. International fees apply for all other courses.

Science, Māori and Indigenous Knowledge

School of Biological Sciences

SCIM 101 Science, Māori and Indigenous Knowledge

15 Points 0.1250 EFTS

This is an integrated multi-disciplinary course between Aotahi: School of Māori and Indigenous Studies and the College of Science. This course provides a basic understanding of Māori and indigenous peoples' knowledge in such fields as astronomy, physics, conservation biology, aquaculture, resource management and health sciences. The course provides unique perspectives in indigenous knowledge, western science and their overlap. The course will provide an essential background in cultural awareness and its relationship with today's New Zealand scientific community.

R: MAOR 172

EQ: MAOR 172

SCIM101-21S2 (C) **Semester 2**

Sculpture

School of Fine Arts

SCUL 211 Sculpture 2A

45 Points 0.3750 EFTS

Students will be introduced to developing technical competence in, and broad operational of, theoretical knowledge within the specialised studio discipline. Projects relating to the conventions and techniques of Sculpture practice, participation in group meetings, critiques, reading groups and critical reflections, documentation of all work.

P: FINA 103, or subject to approval of the Head of the School of Fine Arts. Entry to this course is limited.

SCUL211-21S1 (C) **Semester 1**

SCUL 212 Sculpture 2B

45 Points 0.3750 EFTS

Students will continue the development of technical competence in, and broad operational of, theoretical knowledge within the specialised studio discipline. Projects relating to the conventions and techniques of Sculpture practice, participation in group meetings, critiques, reading groups and critical reflections, documentation of all work.

P: SCUL 211, or subject to approval of the Head of the School of Fine Arts. Entry to this course is limited.

SCUL212-21S2 (C) **Semester 2**

SCUL 311 Sculpture 3

90 Points 0.7500 EFTS

P: SCUL 212

SCUL311-21W (C) **Whole Year (S1 and S2)**

SCUL 411 Sculpture 4

90 Points 0.7500 EFTS

P: SCUL 311

SCUL411-21W (C) **Whole Year (S1 and S2)**

Tāura | Postgraduate

Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.

SCUL 601 Sculpture

120 Points 1.0000 EFTS

P: Subject to approval of the Head of School.

SCUL601-21A (C) **Starts Anytime**

Social Work

School of Languages, Social and Political Sciences

SOWK 101 Introduction to Social Policy

15 Points 0.1250 EFTS

An introduction to the provision of welfare in New Zealand, providing students with the opportunity to examine socio-cultural, economic and political factors that have influenced current welfare policies, practice and services. The course addresses basic organising concepts of welfare, using historical and contemporary case studies. Students will be introduced to tools and frameworks that will enable them to develop research skills and critical thinking. Using current case studies of service delivery presented by guest practitioners, contemporary research practices, social worlds/issues and welfare services/responses are analysed.

R: HSRV 101

EQ: HSRV 101

SOWK101-21S1 (D) **Semester 1**

SOWK101-21S1 (C) **Semester 1**

SOWK 102 Social Services in Aotearoa

15 Points 0.1250 EFTS

A course that introduces the history, and contemporary organisation, and functions of the social services industry in New Zealand society. Particular emphasis is placed on the development of students' capacities to understand and critically analyse the impact of service delivery on diverse populations.

R: HSRV 102

EQ: HSRV 102

SOWK102-21S2 (C) **Semester 2**

SOWK102-21S2 (D) **Semester 2**

SOWK 104 Youth Realities

15 Points 0.1250 EFTS

The course introduces students to the diverse realities of youth with a focus on youth in multiple contexts. Students will explore issues that place youth outside the margins of dominant society that often increases the level of prejudice and discrimination against them. Throughout the course students will engage in current debates within five key sections: Transgressing masculinities and femininities; Embodied identity; Youth technologies, spaces and things; Negotiating sexualities; Missing youth rights. Each of these sections will introduce diverse youth perspectives, issues, challenges and debates, and encourages students to critically consider the responses, models, theoretical frameworks used in youth work and human service sectors in general.

R: HSRV 104

EQ: HSRV 104

SOWK104-21S1 (C) **Semester 1**

SOWK104-21S1 (D) **Semester 1**

SOWK 202 Human Behaviour and Human Systems

15 Points 0.1250 EFTS

This course examines the applications to human services of primary knowledge about human functioning and social behaviours, drawing on contemporary theories of psychosocial processes. The course explores selected developmental and external challenges facing children and families in New Zealand. The focus of the course is on usual developmental processes and the interface between individual and societal expectations, and implications for social service delivery.

P: Any 15 points at 100 level from HSRV or SOWK, or any 60 points at 100 level from the Schedule V of the BA, or from the Schedule C to the BSW(Hons).

R: HSRV 202

EQ: HSRV 202

SOWK202-21S1 (C) **Semester 1**

SOWK202-21S1 (D) **Semester 1**

SOWK 203 Policy Debates in the Social Services

15 Points 0.1250 EFTS

This course examines key principles guiding policy on the provision of social services. Trends and debates around the shifting relationship between welfare systems and the state are explored along with factors influencing the delivery of human services in Aotearoa/New Zealand. Students will learn to critically assess the implications of social service delivery for providers and consumers of welfare services, and issues around the impact of inequalities in society.

P: Any 15 points at 100 level from HSRV or SOWK, or any 60 points at 100 level from the Schedule V of the BA, or from the Schedule C to the BSW(Hons).

R: HSRV 203

EQ: HSRV 203

SOWK203-21S2 (C)

Semester 2

SOWK203-21S2 (D)

Semester 2

SOWK 205 Social Work and Community Engagement

15 Points 0.1250 EFTS

This course focuses on the development of the practice skills needed by students to engage well with individuals and community groups.

P: With the permission of the Programme Co-ordinator.

SOWK205-21S2 (C)

Semester 2

Limited entry. See limitation of entry regulations.

SOWK 206 Communication for Practice

15 Points 0.1250 EFTS

This course will include substantive content on communicating across the life course, communication for practice with Māori, communication for working with diverse communities, communication for advocacy, professional communication (legal and ethical), documenting for practice, and working in groups (teamwork). This course is an introduction to aspects of professional communication in a practice/workplace environment. Common communication dynamics associated with teamwork, breaking bad news, addressing conflict, and macro advocacy will be explored. The course utilises a blended learning format.

P: Any 15 points at 100 level from HSRV or SOWK, or any 60 points at 100 level from the Schedule V of the BA or BC, or from Schedule C to the BSW(Hons).

R: HSRV 201, SOWK 201

SOWK206-21S1 (C)

Semester 1

Limited entry. See limitation of entry regulations.

SOWK 212 Family Violence

15 Points 0.1250 EFTS

This course will provide substantive content on the dynamics of family violence across three forms of violence including child abuse and neglect, intimate partner violence and elder abuse. Specialist law provides the means through which family violence concerns can be addressed by the State. Both voluntary and statutory responses are used in response to family violence. This course provides a broad overview of the ways in which the family and the state attempt to address the issue of family violence. Students will be introduced to research and literature pertaining to family violence from an international and New Zealand perspective and will use this to critique how family violence is both framed and responded to. The course utilises a blended learning format.

P: Any 15 points at 100 level in HSRV or SOWK, or any 60 points at 100 level from the Schedule V of the BA or from Schedule C or E of the BCJ.

R: HSRV 206, HSRV 212

SOWK212-21S2 (D)

Semester 2

SOWK 213 Independent Course of Study: Culture, Participation and Empowerment

15 Points 0.1250 EFTS

P: Any 15 points at 100 level from SOWK, or any 60 points at 100 level from the Schedule V of the BA, or from the Schedule C to the BSW(Hons). Head of Department approval mandatory.

SOWK213-21SU1 (C)

Summer (Jan 21)

SOWK 301 Theory, Methods and Integration

30 Points 0.2500 EFTS

This course provides the theoretical and methodological foundation to the programme. A major component is a review and analysis of major theories and models that influence social work practice. Social work process is explored in relation to these theoretical underpinnings. Finally, practice modalities relevant to family, group and community work are considered. These studies will be integrated with methods and analysis from policy, cross-cultural and contextual perspectives.

P: Any 240 points at 100 and 200 level from the Schedule C and E of the BSW(Hons). Head of Department approval mandatory.

C: SOWK 308. For students undertaking part-time study, SOWK 301, together with SOWK 308, must be completed in the last two years of study.

R: SOWK 514/614

SOWK301-21W (C)

Whole Year (S1 and S2)

Limited entry. See limitation of entry regulations.

SOWK 303 Mental Health

15 Points 0.1250 EFTS

Mental health is studied within the social work context by examining the conceptual frameworks and legislation that distinguish mental health from mental illness, introducing the major diagnostic classifications. The course considers the context of mental disorders and consequently considers issues around human adaptation, culture and gender, policy and service provision. Students are supported to achieve an understanding of how theory applies to social work practice via an independent learning project, and online class discussions based on case studies and readings. Aotearoa New Zealand as a bicultural and multicultural country is woven throughout the course. Implications for working in multi-disciplinary teams, within mental health services or associated services as a social work practitioner are foundational features of this course.

P: Any 240 points at 100 and 200 level from the Schedule C and E of the BSW(Hons). Head of Department approval mandatory.

R: SOWK 611

SOWK303-21S2 (D)

Semester 2

SOWK 304 Indigenous Practice

15 Points 0.1250 EFTS

This course draws together considerations for effective social work practice in New Zealand's bi-cultural society. It also considers issues of cultural identity, ethnic relations, power and control as the basis for cross-cultural work with ethnic minorities, settler communities and refugees. One or more marae-based hui are a course requirement.

P: Any 240 points at 100 and 200 level from the Schedule C and E of the BSW(Hons). Head of Department approval mandatory.

R: HSRV 304

EQ: HSRV 304

SOWK304-21S1 (C)

Semester 1

SOWK 308 Social Work Principles and Skills

30 Points 0.2500 EFTS

Interpersonal communication and counselling skills are examined using a social work process framework with an emphasis on cultural and strengths perspectives. Skill development must be demonstrated and a pass obtained to progress to fieldwork placements.

P: Any 240 points at 100 and 200 level from the Schedule C and E of the BSW(Hons). Head of Department approval mandatory.

C: SOWK 301. For students undertaking part time study, SOWK 301 together with SOWK 308, must be completed in the last two years of study.

R: SOWK 515, SOWK 615

SOWK308-21W (C)

Whole Year (S1 and S2)

Limited entry. See limitation of entry regulations.

SOWK 312 Independent Course of Study: Mental Health and Social Work

15 Points 0.1250 EFTS

P: Any 240 points at 100 and 200 level from the Schedule C and E of the BSW(Hons). Head of Department approval mandatory.

R: SOWK 303, SOWK 611

SOWK312-21SU1 (C)

Summer (Jan 21)

SOWK 340 Practice research for social work

30 Points 0.2500 EFTS

This course covers the fundamentals of social research, including: problem formulation; ethical considerations; sampling and measurement; varieties of research methods; data analysis and, dissemination and distribution of research knowledge related to social work.

P: Any 240 points at 100 and 200 level from the Schedule C and E of the BSW(Hons). Head of Department approval mandatory.

R: HSRV 302; HSRV 305; SOWK 302; SOWK 305; SOWK 310; SOWK 390

SOWK340-21W (C)

Whole Year (S1 and S2)

SOWK 451 Social Work Practice Integration

15 Points 0.1250 EFTS

An advanced course, integrating social work principles, methods, theory, and practice, using group-based learning.

P: Any 120 points at 300 level from the Schedule C of the BSW(Hons).

C: SOWK 471

R: SOWK 525

SOWK451-21W (C)

Whole Year (S1 and S2)

SOWK451-21W (D)

Whole Year (S1 and S2)

Limited entry. See limitation of entry regulations.

SOWK 456 Research Project

15 Points 0.1250 EFTS

This course reviews the fundamentals of social research, including: ethical considerations; sampling and measurement; data analysis and, dissemination and distribution of research knowledge related to the human services. The execution of a group research project is required as the major course assessment.

P: Any 120 points at 300 level from the Schedule C of the BSW(Hons).

R: SOWK 526; SOWK 670

SOWK456-21W (C)

Whole Year (S1 and S2)

SOWK456-21W (D)

Whole Year (S1 and S2)

SOWK 471 Social Work Practicum 1

45 Points 0.3750 EFTS

Field experience of 60 days in social service agencies under the guidance of accredited fieldwork teachers. Teaching and learning methods seek to facilitate an effective framework for initial practice, guided by the Social Workers Registration Board 10 core competencies. Students enrolled in SOWK471 must provide attestations as to character and suitability for continuing practice and agree to practice and be bound by the Code of Ethics of the New Zealand Association of Social Workers and the New Zealand Social Workers Registration Board's registration: Fit and Proper Person Policy. Students enrolled in this course whose circumstances

Social Work

change in regard to character or suitability must inform the course co-ordinator immediately. Changes in circumstances, whether notified by the student or others, may result in the student being required to undergo a re-assessment arranged by the Head of Department. Registered social work field educators and individual students on placement are supported by a designated teaching liaison person.

P: Any 120 points at 300 level from the Schedule C of the BSW(Hons).

C: SOWK 451

R: SOWK 571; SOWK 671

SOWK471-21A (C) Starts Anytime

Limited entry. See limitation of entry regulations.

SOWK 472 Social Work Practicum II

45 Points 0.3750 EFTS

Field experience of 60 days in social service agencies under the guidance of accredited fieldwork teachers. Teaching and learning methods seek to facilitate an effective framework for initial practice, guided by the Social Workers Registration Board 10 core competencies. Students enrolled in SOWK472 must provide attestations as to character and suitability for continuing practice and agree to practice and be bound by the Code of Ethics of the New Zealand Association of Social Workers and the New Zealand Social Workers Registration Board's registration: Fit and Proper Person Policy. Students enrolled in this course whose circumstances change in regard to character or suitability must inform the course co-ordinator immediately. Changes in circumstances, whether notified by the student or others, may result in the student being required to undergo a re-assessment arranged by the Head of Department. Registered social work field educators and individual students on placement are supported by a designated teaching liaison person.

P: SOWK 471

C: SOWK 451. For students undertaking part-time study, SOWK 451, together with SOWK 471, must be completed in the last two years of study.

SOWK472-21A (C) Starts Anytime

SOWK472-21S2 (C) Semester 2

Limited entry. See limitation of entry regulations.

Tāura | Postgraduate

Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.

SOWK 611 Human Behaviour and Mental Health

15 Points 0.1250 EFTS

This course builds on students' foundation knowledge of human behaviour and social work theory and methods. Mental health is studied by examining notions of mental health and mental illness, and then introducing the major classifications. The topic is explored within the context of a developmental ecological, evolutionary and Māori perspectives. Implications for working in multi-disciplinary teams, within mental health services or associated services, as a social work practitioner, are foundational features of this course. Teaching methods include reflective/reflexive group process and an independent learning project.

P: Subject to approval of the Head of Department.

R: SOWK 303

SOWK611-21S2 (D) Semester 2

SOWK 612 Mana Motuhake, a Bicultural Analysis

15 Points 0.1250 EFTS

This course provides a critical analysis of culture, diversity and contemporary debates within Aotearoa New Zealand society. There is a focus on racial diversity and the part that the Treaty of Waitangi plays in developing biculturalism as a precursor to multiculturalism.

P: Subject to approval of the Head of Department.

R: SOWK 512

SOWK612-21S1 (D) Semester 1

SOWK 614 Social Work Theory, Research and Practice

30 Points 0.2500 EFTS

This course provides the theoretical and methodological foundation to the programme. A major component is a review and analysis of major theories and models that influence social work practice. Social work process is explored in relation to these theoretical underpinnings. Finally, practice modalities relevant to family, group and community work are considered. These studies will be integrated with methods and analysis from policy, cross-cultural and contextual perspectives.

P: Subject to approval of the Head of Department.

C: SOWK 615. For students undertaking part-time study, SOWK 614, together with SOWK 615, must be completed in the last two years of study.

R: SOWK 514/301

SOWK614-21W (D) Whole Year (S1 and S2)

Limited entry. See limitation of entry regulations.

SOWK 615 Social Work Principles and Skills

30 Points 0.2500 EFTS

The Principles and Skills course integrates the principles of social work with the study of practice and technique. A framework for social work practice is introduced, comprising values, ethics, perspectives, and practices. This framework is used as the context for the development of skills in relation to practice in individual, family, group, and community development contexts. Skill development and analysis will take place in a series of labs, where practice is considered in

relation to context and diversity. The concept of supervision is introduced and applied in these labs.

P: Subject to approval of the Head of Department.

R: SOWK 308; SOWK 515

SOWK615-21W (D) Whole Year (S1 and S2)

Limited entry. See limitation of entry regulations.

SOWK 617 Qualitative Research and Programme Evaluation Strategies

15 Points 0.1250 EFTS

This course introduces students to a range of qualitative research methods emphasising both conceptual appreciation and technical competence. Students are encouraged to think critically in terms of applicability for developing ethical evaluation models within diverse contexts/settings.

P: Subject to approval of the Head of Department.

R: SOWK 621/HSRV 421

SOWK617-21S1 (C) Semester 1

SOWK 624 Social Policy Theory and Practice Integration

15 Points 0.1250 EFTS

This is a two-part course. In part one, policy theory is considered and policy development examined. Particular emphasis is given to a thorough appreciation of key policy concepts and their application in an Aotearoa New Zealand setting. Alongside this, fieldwork practice experiences are critically examined in practice labs, reinforcing the importance of the theory/practice interface and highlighting a practice awareness of diverse client populations. Part two of the course advances this theory/practice mode of learning. Using a policy orientation, particular emphasis is given to the interrelationship of power dynamics, policy development and implementation, as well as exploring strategies for effecting change. Teaching emphasises reflective and reflexive learning strategies as internship experiences are contemplated and considered in relation to internship experience in an iterative fashion.

P: Subject to approval of the Head of Department.

R: SOWK 451

SOWK624-21W (D) Whole Year (S1 and S2)

Limited entry. See limitation of entry regulations.

SOWK 640 Practice research for social work

30 Points 0.2500 EFTS

This course covers the fundamentals of social research, including: problem formulation; ethical considerations; sampling and measurement; varieties of research methods; data analysis and, dissemination and distribution of research knowledge related to social work.

P: Subject to approval of the HOD.

C: SOWK 612, SOWK 614, SOWK 615, SOWK 611

R: SOWK 621/HSRV 421; SOWK 617

SOWK640-21W (D) Whole Year (S1 and S2)

SOWK 670 Research Project

15 Points 0.1250 EFTS

This course reviews the fundamentals of social research, including: ethical considerations; sampling and measurement; data analysis and, dissemination and distribution of research knowledge related to the human services. The execution of a group research project is required as the major course assessment.

P: SOWK 617. Subject to approval of the Head of Department.

R: SOWK 526; SOWK 456

SOWK670-21W (D) Whole Year (S1 and S2)

SOWK670-21W (C) Whole Year (S1 and S2)

SOWK 671 Fieldwork Practicum 1

45 Points 0.3750 EFTS

Field experience of 60 days in social service agencies under the guidance of accredited fieldwork teachers. Teaching and learning methods seek to facilitate an effective framework for initial practice, guided by the Social Workers Registration Board 10 core competencies. Students enrolled in SOWK 671 must provide attestations as to character and suitability for continuing practice and agree to practice and be bound by the Code of Ethics of the New Zealand Association of Social Workers and the New Zealand Social Workers Registration Board's registration: Fit and Proper Person Policy. Students enrolled in this course whose circumstances change in regard to character or suitability must inform the course co-ordinator immediately. Changes in circumstances, whether notified by the student or others, may result in the student being required to undergo a re-assessment arranged by the Head of Department. Registered social work field educators and individual students on placement are supported by a designated teaching liaison person.

P: Subject to approval of the Head of Department.

C: SOWK 624

R: SOWK 471, SOWK 571

SOWK671-21A (D) Starts Anytime

SOWK671-21S1 (D) Semester 1

Limited entry. See limitation of entry regulations.

SOWK 672 Fieldwork Practicum II

45 Points 0.3750 EFTS

Field experience of 60 days in social service agencies under the guidance of accredited fieldwork teachers. Teaching and learning methods seek to facilitate an effective framework for initial practice, guided by the Social Workers Registration Board 10 core competencies. Students

enrolled in SOWK672 must provide attestations as to character and suitability for continuing practice and agree to practice and be bound by the Code of Ethics of the New Zealand Association of Social Workers and the New Zealand Social Workers Registration Board's registration: Fit and Proper Person Policy. Students enrolled in this course whose circumstances change in regard to character or suitability must inform the course co-ordinator immediately. Changes in circumstances, whether notified by the student or others, may result in the student being required to undergo a re-assessment arranged by the Head of Department. Registered social work field educators and individual students on placement are supported by a designated teaching liaison person.

P: SOWK 671. Subject to approval of the Head of Department.

C: SOWK 624

R: SOWK 472/572

SOWK672-21A (D) Starts Anytime

SOWK672-21S2 (D) Semester 2

Limited entry. See limitation of entry regulations.

SOWK 695 Social Work MSW Thesis

120 Points 1.0000 EFTS

P: Subject to approval of the Head of Department.

SOWK695-21A (C) Starts Anytime

SOWK 790 Social Work PhD

120 Points 1.0000 EFTS

P: Subject to approval of the Head of School.

SOWK790-21A (C) Starts Anytime

*Part-time enrolment (0.65 EFTS) is available on approval. *From 1 January 2008, international students who are residing in New Zealand on a NZ Immigration Study Visa pay the Domestic Fee for this course. International fees apply for all other courses.*

Sociology

School of Language, Social and Political Sciences

SOCI 111 Exploring Society

15 Points 0.1250 EFTS

An introduction to the major themes in contemporary sociology in a way that is relevant to New Zealand culture and society.

SOCI111-21S1 (C) Semester 1

SOCI 112 Global Society

15 Points 0.1250 EFTS

Combining sociological theory and concepts with arguments and examples drawn from around the globe, this course conveys the scope and value of sociology for understanding the complex and fast-changing world in which we live.

SOCI112-21S2 (C) Semester 2

SOCI 201 Social Theory for Contemporary Life

15 Points 0.1250 EFTS

This course engages with a range of classical and contemporary social theories dealing with the complexity of the social and everyday life. Even though social theories aim to provide a general interpretation of the social forces that have shaped the modern, contemporary world; we use them every day in informal ways. This course focuses on how social theorists have set out to make sense of the world. Students will be introduced to a selection of theorists and perspectives in an approachable manner and use material that is relevant to our contemporary social world. This course is compulsory for the Sociology major.

P: Any 15 points at 100 level from ANTH or SOCI, or any 60 points at 100 level from the Schedule V of the BA.

R: SOCI 301, SOCI 393 (2013).

SOCI201-21S1 (C) Semester 1

SOCI 202 Constructing Bodies

15 Points 0.1250 EFTS

This course examines a variety of body modification and management practices, such as cosmetic surgery, sexual enhancement technologies and body piercing, and considers the ways in which particular forms of embodiment challenge common understandings about bodies, gender and sexuality.

P: Any 15 points at 100 level from ANTH, CULT, or SOCI, or any 60 points at 100 level from the Schedule V of the BA.

R: GEND 102, FMST 102, GEND 112, AMST 113, CULT 112, AMST 142, GEND 201, CULT 207

EQ: GEND 201, CULT 207

SOCI202-21S2 (C) Semester 2

SOCI 209 Te Tiriti: The Treaty of Waitangi

15 Points 0.1250 EFTS

This course uses the Treaty of Waitangi to frame examinations of contemporary New Zealand society. We ask questions designed to highlight and emphasise the relevance of the Treaty of Waitangi to everyday New Zealanders. In addition, the course looks at the importance of this document in the maintenance of Crown and Māori relations. Topics covered range from the signing of the Treaty, and historical developments, to the protest movements and activism of the continuing Māori renaissance period, race relations and one law-for-all.

P: Any 15 points at 100 level from ANTH, CULT, HIST, HSRV, MAOR, POLS, SOCI, or SOWK, or any 60 points at 100 level from the Schedule V of the BA.

R: HIST 268, MAOR 219, POLS 218, POLS 258, HSRV 207, CULT 219

EQ: HIST 268, MAOR 219, POLS 258, HSRV 207, CULT 219

SOCI209-21S2 (C) Semester 2

SOCI 212 Kinship and Family in Comparative Perspective

15 Points 0.1250 EFTS

This course focuses on the importance and nature of family and kinship in the construction and maintenance of social relations by individuals as well as groups, in a variety of ethnographic contexts.

P: Any 15 points at 100 level from ANTH or SOCI, or any 60 points at 100 level from the Schedule V of the BA.

R: ANTH 312, ANTH 212, GEND 218, GEND 318 and SOCI 312

EQ: ANTH 212, GEND 218

SOCI212-21S1 (C) Semester 1

SOCI 218 Crime and Justice

15 Points 0.1250 EFTS

This course examines the development of criminological theory, before moving to consider crime in New Zealand itself. The final section of the course deals with corrections and the criminal justice system.

P: Any 15 points at 100 level from ANTH, CRJU, LAWS, or SOCI, or any 60 points at 100 level from the Schedule V of the BA.

R: SOCI 318, CRJU 201

EQ: CRJU 201

SOCI218-21S1 (C) Semester 1

SOCI 220 Environment and Society

15 Points 0.1250 EFTS

This course considers the relationship between ecology and environmental sociology, collective dilemmas, energy and society, the environment and politics and some other selected environmental issues.

P: Any 15 points at 100 level from ANTH or SOCI, or any 60 points at 100 level from the Schedule V of the BA.

R: SOCI 230 (2005), SOCI 320, SOCI 330 (2005)

SOCI220-21SU1 (C) Summer (Jan 21)

SOCI 223 Ethnicity, Racism and History

15 Points 0.1250 EFTS

This course provides a critical introduction to the historical and anthropological study of ethnicity, racism, genocide and migration.

P: Any 15 points at 100 level from ANTH, HIST, MAOR, or SOCI, or any 60 points at 100 level from the Schedule V of the BA.

R: ANTH 223, HIST 283, MAOR 230, PACS 204

EQ: ANTH 223, HIST 283, MAOR 230, PACS 204

SOCI223-21S2 (C) Semester 2

SOCI 238 Exploring the Past: Public History, Memory and Material Culture

15 Points 0.1250 EFTS

This course is a 'hands-on' introduction to public history and historical ethnography, taught through a combination of workshops, tutorials and field trips.

P: Any 15 points at 100 level from ANTH, HIST, or SOCI, or any 60 points at 100 level from the Schedule V of the BA.

R: ANTH 238, HIST 288

EQ: ANTH 238, HIST 288

SOCI238-21S1 (C) Semester 1

SOCI 243 Sociology of Health and Medicine

15 Points 0.1250 EFTS

This course explores sociological ways of thinking about health and medicine. Focusing on health institutions, people's experiences within the health system, and different ways of constructing health and illness, we will look at inequalities and health, mental health, disabilities, chronic illness, and complementary medicine, amongst other topics. Students will engage in a policy project and will gain a broad understanding of the Aotearoa New Zealand health scene. Students will also have an opportunity to think about health and illness in relation to their own lives.

P: Any 15 points at 100 level from ANTH or SOCI, or any 60 points at 100 level from the Schedule V of the BA.

R: SOCI 343

SOCI243-21S1 (C) Semester 1

SOCI 255 Sociology of the City

15 Points 0.1250 EFTS

This course is concerned with the city as it is experienced today: as shifting mixes of public and private spaces in which disruptions provoke different points of view, multiple memories and complex associations.

P: Any 15 points at 100 level from ANTH, CULT, or SOCI, or any 60 points at 100 level from the Schedule V of the BA.

R: SOCI 292, SOCI 392, SOCI 355, CULT 210, CULT 310

EQ: CULT 210

SOCI255-21S1 (C) Semester 1

SOCI 263 Sociology of the Everyday World

15 Points 0.1250 EFTS

This course introduces students to a range of issues associated with the sociology of the everyday world. It examines how the elements of everyday life - shopping, credit cards, leisure, the meaning of home, food, relationships with companion animals, and other student selected topics reveal our entanglement with wider social processes. Everyday worlds will also be examined as a nexus for our engagement with contemporary issues ranging from environmental awareness to social justice.

P: Any 15 points at 100 level from ANTH or SOCI, or any 60 points at 100 level from the Schedule V of the BA.

SOCI263-21S2 (C) Semester 2

SOCI 278 Religion and Society: Why God Won't Die

15 Points 0.1250 EFTS

This course is an introduction to the sociology of religion focused on thinking and rethinking religion & society. Central to the discussion is why god and religion has not disappeared as was predicted in much modern social theory. In considering this question, the course provides a critical discussion of the ways religion, god and religious practices have been thought, dismissed and applied over the past 150 years within the Sociology of Religion.

P: Any 15 points at 100 level from ANTH or SOCI, or any 60 points at 100 level from the Schedule V of the BA.

R: ANTH 298, SOCI 292, SOCI 392 in 2012

EQ: ANTH 298

SOCI278-21S2 (C) Semester 2

SOCI 293 The History of Gangs in New Zealand

15 Points 0.1250 EFTS

An introduction to the sociology of gangs, focusing on the historical development of gangs in New Zealand and the methods which have been taken to control them.

P: Any 15 points at 100 level in SOCI, ANTH, CRJU, or LAWS, or any 60 points at 100 level from the Schedule V of the BA.

SOCI293-21S2 (C) Semester 2

PACE 395 Internship

30 Points 0.2500 EFTS

What can you do with your major? With your degree? The purpose of the internship course is to explore both the ideological and practical assumptions guiding this question. The course is designed to be a critical, theoretical and "real-world" examination of the practices and ideologies inherent in both community and business organisations. You will apply the analytical skills acquired through your major, and through class seminars and readings, to a project designed by a local company or community group. Please check out the website for further information and specific project descriptions: www.arts.canterbury.ac.nz/internships

P: 150 points, special application and interview, and permission of the Internship Director.

R: ARTS 395

EQ: ARTS 395

PACE395-20SU2 (C) Summer (Nov 20)

PACE395-21A (C) Starts Anytime

PACE395-21S1 (C) Semester 1

PACE395-21S2 (C) Semester 2

Limited entry. See limitation of entry regulations. A student will be selected for a specific project. Only students accepted for projects will be allowed into the course. Please go to <http://www.arts.canterbury.ac.nz/internships> for more information.

SOCI 355 Sociology of the City

30 Points 0.2500 EFTS

This course is concerned with the city as it is experienced today: as shifting mixes of public and private spaces in which disruptions provoke different points of view, multiple memories and complex associations.

P: Any 30 points at 200 level from ANTH, CULT, or SOCI, or any 60 points at 200 level from the Schedule V of the BA.

R: SOCI 292, SOCI 392, SOCI 255, CULT 210, CULT 310

EQ: CULT 310

SOCI355-21S1 (C) Semester 1

SOCI 358 Prisons and Corrections

30 Points 0.2500 EFTS

This course looks at the evolution of corrections internationally and in New Zealand, and examines a number of contemporary correctional issues.

P: Any 30 points at 200 level from ANTH or SOCI, or any 60 points at 200 level from the Schedule V of the BA.

SOCI358-21S2 (C) Semester 2

SOCI 361 Social Movements

30 Points 0.2500 EFTS

This course explores diverse social movements, asking how we can make sense of them. How do they bring about social change? The course looks at abortion movements, environmental movements, civil rights movements, and many other movements. Collective identity, internet activism, framing, and various theories of social movements are considered. Students will do a presentation on a social movement of their choice.

P: Any 30 points at 200 level from ANTH or SOCI, or any 60 points at 200 level from the Schedule V of the BA.

R: GEND 227, GEND 327, SOCI 261

SOCI361-20SU2 (C) Summer (Nov 20)

SOCI361-21S2 (C) Semester 2

SOCI 363 Investigating Social Worlds

30 Points 0.2500 EFTS

The course provides students with 'hands on' experiential learning in conducting, and participating in, life stories and focus group research. Students will gain skills in one-to-one interviewing, focus group interviews, research ethics, transcript analysis and reflexive research practice.

P: Any 30 points at 200 level from ANTH or SOCI, or any 60 points at 200 level from the Schedule V of the BA.

R: SOCI 340, SOCI 341

SOCI363-21S1 (C) Semester 1

SOCI 368 The Politics of Need: Globalisation, Poverty and Welfare Provision

30 Points 0.2500 EFTS

An advanced study of globalisation that examines how our new world of risk (including global financial risk) shapes our experiences of wealth, poverty and belonging. As well as using case studies from around the world, it covers groundbreaking theorisations of globalisation and an interrogation of New Zealand's place in a global world.

P: 30 points of SOCI including 15 points at 200 level; OR 30 points of SOCI or ANTH at 200 level; OR 60 points in related subjects including 30 points at 200 level with the approval of the Head of Department.

R: SOCI 268, SOCI 348 (prior to 2006), HSRV 205

SOCI368-21S2 (C) Semester 2

SOCI 388 Contested Heritage: Politics, Power and Practice

30 Points 0.2500 EFTS

This course provides students with a hands-on introduction to the study of heritage. We explore ways we might understand and interpret contemporary heritage practices in a range of contexts, including post-earthquake Christchurch.

P: Any 30 points at 200 level from ANTH or SOCI, or any 60 points at 200 level from the Schedule V of the BA.

R: ANTH 388

EQ: ANTH 388

SOCI388-21S1 (C) Semester 1

Tāura | Postgraduate

Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.

CULT 415 Intimacy and Relationality in the Digital Era

30 Points 0.2500 EFTS

We have become a 'sexual story telling culture'. The sociologist Kenneth Plummer wrote this in 1995 to describe a change in late twentieth century western cultures: a shift in sexual storytelling, which had been private, to a proliferation of increasingly public sexual narratives. This trend has only intensified in the past two decades. This course will explore the cultural landscape of contemporary sexual 'story telling' with attention to how this intersects with gender, ethnicity and age.

P: Subject to the approval of the Head of Department

R: SOCI 404

EQ: SOCI 404

CULT415-21S1 (C) Semester 1

SOCI 404 Intimacy and Relationality in the Digital Era

30 Points 0.2500 EFTS

We have become a 'sexual story telling culture'. The sociologist Kenneth Plummer wrote this in 1995 to describe a change in late twentieth century western cultures: a shift in sexual storytelling, which had been private, to a proliferation of increasingly public sexual narratives. This trend has only intensified in the past two decades. This course will explore the cultural

landscape of contemporary sexual 'story telling' with attention to how this intersects with gender, ethnicity and age.

P: Subject to approval of the Head of Department.

R: CULT 415

EQ: CULT 415

SOCI404-21S1 (C) Semester 1

SOCI 420 The Politics of Need

30 Points 0.2500 EFTS

The Politics of Need is a critical engagement with local and global society and the issues that have arisen and continue to arise. What does - and can - society mean? What are the debates, challenges and possibilities as we find ourselves in the second decade of the 21st century?

Why does Need still occur? How can we think critically past the all-too-often simplistic pieties and blames of both the left and the right? How are governments, think tanks, NGOs, social movements, intellectuals and public debate responding? How might we critique, respond to and rethink structural inequality and the welfare state?

P: Subject to approval of the Head of Department.

R: SOCI 368

SOCI420-21S2 (C) Semester 2

SOCI 441 Independent Course of Study

30 Points 0.2500 EFTS

P: Subject to approval of the Head of Department

SOCI441-21S2 (C) Semester 2

SOCI 470 Supervised Research

30 Points 0.2500 EFTS

This course is intended to allow students to explore a research topic of their choice under the supervision of an appropriate staff member.

P: Subject to approval of the Head of Department.

SOCI470-21S1 (C) Semester 1

SOCI470-21S2 (C) Semester 2

SOCI 650 MA Dissertation

60 Points 0.5000 EFTS

MA Dissertation

P: Subject to approval of the Head of Department.

SOCI650-21A (C) Starts Anytime

SOCI650-21S1 (C) Semester 1

SOCI650-21S2 (C) Semester 2

SOCI 690 MA Thesis

120 Points 1.0000 EFTS

P: Subject to approval of the Head of Department.

SOCI690-21A (C) Starts Anytime

Part-time enrolment (0.65 EFTS) is available on approval.

SOCI 790 Sociology PhD

120 Points 1.0000 EFTS

P: Subject to approval of the Head of Department.

SOCI790-21A (C) Starts Anytime

*Part-time enrolment (0.65 EFTS) is available on approval. *From 1 January 2008, international students who are residing in New Zealand on a NZ Immigration Study Visa pay the Domestic Fee for this course. International fees apply for all other courses.*

Software Engineering

Department of Computer Science and Software Engineering

SENG 199 Software Engineering Workshop Training Course

0 Points 0.0000 EFTS

Compulsory workshop training course for Software Engineering students.

P: Approval into the BE(Hons) Software Engineering.

SENG199-21W (C) Whole Year (S1 and S2)

SENG 201 Software Engineering I

15 Points 0.1250 EFTS

This course provides an introduction to the principles, processes, practices, techniques and tools of software engineering. The underlying theory and practical applications of a variety of topics in software engineering are covered with particular reference to object-oriented software development.

P: (1) COSC 121 or COSC 131; (2) COSC 122; (3) 15 points from MATH, STAT or EMTH. MATH 120/STAT 101 are strongly recommended.

SENG201-21S1 (C) Semester 1

SENG 202 Software Engineering Project Workshop

15 Points 0.1250 EFTS

The Software Engineering Project Workshop gives students in-depth experience in developing software applications using modern techniques. Participants work either individually or in small groups to develop a medium-complexity application. At the end of this course they will have practised the fundamental skills required to develop software systems using modern tools, practices and development environments.

P: SENG 201 AND Approval into the BE(Hons) Software Engineering programme.

SENG202-21S2 (C) Semester 2

SENG 301 Software Engineering II

15 Points 0.1250 EFTS

SENG301 builds on the material introduced in SENG201 (Introduction to Software Engineering) and is intended as a companion course to SENG302 (Software Engineering Group Project). The focus is on quality and how to model, measure and maintain it as project size and complexity scale up.

P: SENG 201.

R: COSC 314, COSC 324

RP: COSC 110 OR COSC 101, ENCE 260.

SENG301-21S1 (C) Semester 1

SENG 302 Software Engineering Group Project

30 Points 0.2500 EFTS

The Software Engineering group project gives students in-depth experience in developing software applications in groups. Participants work in groups to develop a complex real application. At the end of this course you will have practiced the skills required to be a Software Engineer in the real world, including gaining the required skills to be able to develop complex applications, dealing with vague (and often conflicting) customer requirements, working under pressure and being a valuable member of a software development team.

P: SENG 201 and COSC 265

C: SENG 301

SENG302-21W (C) Whole Year (S1 and S2)

SENG 365 Web Computing Architectures

15 Points 0.1250 EFTS

This course introduces the fundamental concepts and techniques for developing applications that are delivered via the world wide web. Students will gain practical experience in developing software using a variety of current web application platforms, and will gain an understanding of the technical details of the underlying frameworks used and their implications when producing complex web-based software systems.

P: COSC 265 or two courses out of (INFO 223, INFO 253, INFO 263).

R: COSC 365

RP: SENG 201 is strongly recommended.

SENG365-21S1 (C) Semester 1

SENG 401 Software Engineering III

15 Points 0.1250 EFTS

This course will build on SENG201 and SENG301, deepening study of design and quality assurance in software projects.

P: SENG 301 and SENG 302

R: COSC 427

SENG401-21S1 (C) Semester 1

SENG 402 Software Engineering Research Project

30 Points 0.2500 EFTS

The Software Engineering Research Project gives students in-depth experience in researching complex, open-ended software engineering problems, and developing and evaluating potential solutions. Participants work individually or in teams to investigate and develop solutions for a complex real-world problem. There may be the opportunity to work on a project in conjunction with industry. At the end of this course you will have practiced the skills required to develop solutions for complex problems involving the development of substantial software solutions of significant complexity. You will also be comfortable with dealing with vague (and often conflicting) customer requirements, working under pressure and providing technical leadership.

P: SENG 301, SENG 302 AND Approval into the BE(Hons) Software Engineering programme.

SENG402-21W (C) Whole Year (S1 and S2)

SENG 403 Software Process and Product Quality

15 Points 0.1250 EFTS

This course introduces software quality key concepts, practices, methodologies and techniques present through the software lifecycle.

P: SENG 301

SENG403-21S2 (C) Semester 2

SENG 404 Software Requirements and Architecture

15 Points 0.1250 EFTS

This course explores software requirements and software architecture in the software development and software product life cycle.

P: (1) SENG 301, or (2) Subject to approval by Head of Department

SENG404-21S1 (C) Semester 1**SENG 405 Model-Driven Software Engineering**

15 Points 0.1250 EFTS

The purpose of this course is to introduce students to model-driven software engineering practices where models (e.g., software component or activity diagrams, state or flow charts,...) are not used as documentation and reasoning artefacts solely, but are first class products from which other modelling, simulation artefacts or executable source code can be produced. Students will first learn about appropriate methodologies and suitable tooling support for model-driven software engineering. Then, they will develop team work skills as software language engineers where they will create their own software language and implement a dedicated development environment. Last, they will conduct a scientifically-grounded empirical evaluation of a domain specific language framework developed by their peers. The course will use a mix of theoretical lectures (e.g., language engineering, model notations, knowledge management, ontologies) and practical labs (using e.g., Arduinos, testing frameworks) to put in practice both software language engineering and model-driven engineering techniques. The assignments will be executed in pairs and presented to the whole class. The final examination will be an open book exam.

P: COSC 261 and SENG 301

SENG405-21S1 (C) Semester 1**SENG 440 Special Topic: Topics in Mobile Computing**

15 Points 0.1250 EFTS

This course explores topics of mobile computing platforms. It will explore a range of issues, for example user experience (UX) and the importance of asynchronous and event driven software design, and the implications of resource constraints e.g. battery and memory. The course will likely use the Google Android platform as the primary example to demonstrate the topics; and will complement this example with brief consideration of other 'native' platforms (e.g. iOS, WinPhone) and the HTML5 approach (e.g. WebViews, FirefoxOS, and PhoneGap).

P: SENG 301

SENG440-21S1 (C) Semester 1**SENG 442 Special Topic**

15 Points 0.1250 EFTS

Special Topic in Software Engineering

P: Subject to the approval of the Director of Studies

SENG442-21S2 (C) Semester 2**Tāura | Postgraduate**

Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.

SENG 690 Software ME Thesis

120 Points 1.0000 EFTS

Software ME Thesis

P: Subject to approval of the Head of Department

SENG690-21A (C) Starts Anytime**Soil Science****School of Forestry****SOIL 203 Soil Fertility**

15 Points 0.1250 EFTS

Basic soil properties; soil formation and soils in the New Zealand landscape; soil chemical and physical properties which are important to sustainable land use and environmental protection; assessment of soil nutrient availability, particularly with respect to forests.

P: 30 points from CHEM, GEOL, BIOL, FORE or by approval Chair Forestry Board of Studies

R: SOIL 201

SOIL203-21S2 (C) Semester 2

Limited entry. See limitation of entry regulations.

Spanish**School of Language, Social and Political Sciences****SPAN 101 Beginners' Spanish A**

15 Points 0.1250 EFTS

An introductory language course for students with no previous knowledge of Spanish.

SPAN101-21S1 (C) Semester 1

150 2021 Rārangī Akoranga

SPAN 102 Beginners' Spanish B

15 Points 0.1250 EFTS

A language course following on from SPAN 101, for those with limited knowledge of Spanish.

P: SPAN 101, NCEA Level 2, or placement test.

SPAN102-21S2 (C) Semester 2**SPAN 121 From Fiesta to Siesta: the Magical Culture of the Spanish-speaking World**

15 Points 0.1250 EFTS

This course is an introduction to the fascinating world of the Hispanic cultures covering Spain, Mexico, Central America, most of South America and much of the Caribbean. Topics covered will revolve around a general approach to the main cultural features of the Spanish-speaking world. The magic and colours of its lands and people will guide students through a pathway of cultural varieties that even sharing the Spanish language they still preserve their indigenous languages and cultural legacy. Ko te toa i a tiki, i a mano o te takatao. [It is the bravery of a multitude, of thousands of people]. The passion and mixture of its music and dances, gastronomy and customs that have always walked hand in hand with the folklore and the festivals, will provide students with stories of unique roots, belief-systems, myths and traditions. A brief historical overview will finally allow students to understand the fine arts' conglomerate in the Hispanic world as for painting, architecture, literature as well as performing arts and film that draw on very diverse influences. No previous knowledge of the Spanish language is required as it is taught in English.

SPAN121-20SU2 (C) Summer (Nov 20)**SPAN121-20SU2 (D) Summer (Nov 20)****SPAN 201 Intermediate Spanish Language A**

15 Points 0.1250 EFTS

Review of the basic features of Spanish that leads into an intensified examination of more complex structures for both conversational and written Spanish, including a wide range of verb structures.

P: SPAN 102, NCEA Level 3, or placement test.

SPAN201-21S1 (C) Semester 1**SPAN 202 Intermediate Spanish Language B**

15 Points 0.1250 EFTS

The course focuses on developing students' ability to read and write Spanish of a level commensurate with original texts drawn from contemporary cultural and scholarly debates.

P: SPAN 201 or placement test. Note: This course assumes a relatively high level of proficiency in the Spanish language. Even well prepared high school students should therefore enrol for the prerequisite course SPAN 201 before trying to enter SPAN 202.

SPAN202-21S2 (C) Semester 2**SPAN 203 Spanish Conversation and Pronunciation**

15 Points 0.1250 EFTS

Conducted strictly in Spanish, this course will offer students an opportunity to engage in conversation on a number of captivating topics given in a variety of formats with the goal of further developing oral proficiency, improving grammatical accuracy and improving pronunciation. Different types of discourse such as narration, debate, and dramatic dialogue will be emphasized. At the same time, students will also be exposed to other language skills such as listening, reading and writing.

P: SPAN 201 or placement test.

SPAN203-21S2 (C) Semester 2**SPAN 205 Journey through Hispanic Civilisation and Culture**

15 Points 0.1250 EFTS

This course employs a historical approach to study Hispanic civilisation and culture. The first part of the course will focus on Spanish history and culture and the second part will be devoted to the history and the culture of Latin America. This course does not require any previous knowledge of Spanish as it will be taught in English.

P: Any 15 points at 100 level from SPAN, or any 60 points at 100 level from the Schedule V of the BA.

R: SPAN 305

SPAN205-21S1 (C) Semester 1**SPAN 301 Advanced Spanish A**

30 Points 0.2500 EFTS

The aim of this course is to give students advanced proficiency in Spanish across the four skills (speaking, listening, reading and writing). The course also introduces students to the history and culture of the different Hispanic countries. By the end of this course students will be able to recognise a variety of discourses and idiomatic expressions as well as communicate at an advanced level in Spanish.

P: SPAN 202 or placement test.

SPAN301-21S1 (C) Semester 1**SPAN 302 Advanced Spanish B**

30 Points 0.2500 EFTS

This course is a continuation of SPAN301. Students' linguistic skills will be improved and reinforced through extended readings, written assignments and aural/oral activities in class.

Grammar will be taught in a cultural content-based context. By the end of this course, students will have a broader knowledge of Hispanic cultures; students will be able to communicate more effectively (orally and in writing) with native and other competent speakers.

P: SPAN 301 or placement test.

SPAN302-21S2 (C) Semester 2

SPAN 305 Journey Through Hispanic Civilisation and Culture

30 Points 0.2500 EFTS

This course employs a historical approach to study Hispanic civilisation and culture. The first part of the course will focus on Spanish history and culture and the second part will be devoted to the history and the culture of Latin America. This course requires previous knowledge of Spanish as part of its content and some assessments will be entirely in Spanish.

P: Any 45 points at 200 level from any subject, including SPAN 202 or placement test.

R: SPAN 205

SPAN305-21S1 (C) Semester 1

PACE 395 Internship

30 Points 0.2500 EFTS

What can you do with your major? With your degree? The purpose of the internship course is to explore both the ideological and practical assumptions guiding this question. The course is designed to be a critical, theoretical and "real-world" examination of the practices and ideologies inherent in both community and business organisations. You will apply the analytical skills acquired through your major, and through class seminars and readings, to a project designed by a local company or community group. Please check out the website for further information and specific project descriptions: www.arts.canterbury.ac.nz/internships

P: 150 points, special application and interview, and permission of the Internship Director.

R: ARTS 395

EQ: ARTS 395

PACE395-20SU2 (C) Summer (Nov 20)

PACE395-21A (C) Starts Anytime

PACE395-21S1 (C) Semester 1

PACE395-21S2 (C) Semester 2

Limited entry. See limitation of entry regulations. A student will be selected for a specific project. Only students accepted for projects will be allowed into the course. Please go to <http://www.arts.canterbury.ac.nz/internships> for more information.

Tāura | Postgraduate

Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.

LANC 401 In Other Words What? Theory and Practice of Translation

30 Points 0.2500 EFTS

An introduction to Translation Studies for students skilled in two or more languages, including aspects of modern theory and practice in the craft of accurate translation.

P: Subject to approval of the Head of Programme.

LANC401-21S1 (C) Semester 1

SPAN 405 Translation Studies: Focus on Spanish

30 Points 0.2500 EFTS

This is a language specific translation course whose aim is to provide students with a solid understanding of the main issues involved in Translation Studies. This course will have both theoretical and practical components, with an emphasis on the connections between translation theory and practice. It will introduce students to the main grammatical and translation-related concepts and strategies necessary to achieve equivalence effects between source and target language. This will be achieved by concentrating on those areas in the relationship between English and Spanish which are characterized by non-equivalence.

P: Subject to approval of the Programme Director. Note: Advanced knowledge of Spanish language is required.

RP: BA and demonstrable knowledge of Spanish

SPAN405-21S2 (C) Semester 2

SPAN 411 Research Essay

30 Points 0.2500 EFTS

In this course, students study a research topic of their choice under the supervision of an appropriate staff member, subject to approval by the programme coordinator. This course is compulsory for all Spanish honors students.

P: Subject to approval of the Programme Director.

SPAN411-21S1 (C) Semester 1

SPAN411-21S2 (C) Semester 2

SPAN 412 Advanced Spanish Language

30 Points 0.2500 EFTS

This course is designed to place students' practical knowledge of Spanish within a broader, and scientific framework. Students will be introduced to a variety of linguistic and sociolinguistic topics including a general overview of the history and formation of the language, the sound system, morphology, syntax, varieties of Peninsular and Latin American Spanish, writing styles and register, and idiomatic expressions. The content of this course is designed to engage

students to reflect on the use and formation of the Spanish language from a theoretical and a practical approach so that they can develop critical skills and do further research while they master their communicative and writing proficiency.

P: Subject to approval of the Programme Director. Note: Advanced knowledge of Spanish language is required.

SPAN412-21S2 (C) Semester 2

SPAN 650 MA Dissertation

60 Points 0.5000 EFTS

MA Dissertation

P: Subject to approval of the Head of Department.

SPAN650-21A (C) Starts Anytime

SPAN650-21S1 (C) Semester 1

SPAN650-21S2 (C) Semester 2

SPAN 690 MA Thesis

120 Points 1.0000 EFTS

P: Subject to approval of the Programme Director.

SPAN690-21A (C) Starts Anytime

Part-time enrolment (0.65 EFTS) is available on approval.

SPAN 790 Spanish PhD

120 Points 1.0000 EFTS

P: Subject to approval of the Head of School

SPAN790-21A (C) Starts Anytime

Part-time enrolment (0.65 EFTS) is available on approval. *From 1 January 2008, international students who are residing in New Zealand on a NZ Immigration Study Visa pay the Domestic Fee for this course. International fees apply for all other courses.

Speech and Language Pathology

Refer to Communication Disorders on page XXX.

Sport Coaching

School of Health Sciences

SPCO 101 Introduction to Sport Coaching

15 Points 0.1250 EFTS

This course introduces students to the contemporary practice of coaching and recent developments in research and practice in the field. It encourages open attitudes to innovations in coaching and the need for informed reflective practice. Students are encouraged to reflect upon their existing beliefs about coaching and how they dispose them toward recent developments in the field and the growing influence of research on practice. Students will gain knowledge and understanding about relevant aspects of human development and pedagogy with a focus on how to coach for learning rather than what to coach. They will be exposed to the idea of a spectrum of coaching styles from direct instruction to problem solving approaches and how the particular sporting context and sport affects decisions about which approach to take. It involves reflecting upon first hand experience as learners and coaches informed by relevant literature.

SPCO101-21S1 (D) Semester 1

SPCO101-21S1 (C) Semester 1

SPCO 102 Theoretical Foundations of Coaching and Teaching

15 Points 0.1250 EFTS

This course introduces students to the philosophical assumptions, learning theory and theories of communication that underpin coaching practice. Understanding the philosophical assumptions, theories of human learning and of communication that coaching sits upon provides important foundational knowledge that coaches can draw upon to make important decisions about coaching at any level. The course includes participating in practical sessions across a range of sports that students will reflect upon and draw upon relevant literature to develop into well informed, inquisitive and reflective coaches.

SPCO102-21S2 (C) Semester 2

SPCO102-21S2 (D) Semester 2

SPCO 103 Sport Psychology

15 Points 0.1250 EFTS

This course will provide an introduction to basic sport psychology theories and techniques used for maximising performance and satisfaction in sport and physical activity. It will allow students to apply appropriate sport psychology techniques and examine the implications of these for sport coaches and the sporting environment.

SPCO103-21S2 (C) Semester 2

SPCO103-21S2 (D) Semester 2

SPCO 104 Anatomy and Physiology

15 Points 0.1250 EFTS

In this course, students will explore the human body's structure and functions, and how systems interact and adapt to exercise.

R: TEPE 102

SPCO104-21S2 (C) Semester 2**SPCO104-21S2 (D) Semester 2****SPCO 105 Social History of Sport and Physical Education**

15 Points 0.1250 EFTS

An introduction to the history and philosophy of physical education, physical activity and sport, critiquing the development of movement culture with particular reference to New Zealand sport development and physical education. In order to understand the nature and purpose of contemporary movement contexts, this course provides historical and philosophical frameworks.

R: TEPE 204, TEPE 105

SPCO105-21S1 (C) Semester 1**SPCO105-21S1 (D) Semester 1****SPCO 107 Sport Nutrition**

15 Points 0.1250 EFTS

This course provides an understanding of nutritional principles for healthy living and maintaining and improving sporting performance. The course will identify recommended nutritional practices for various populations including athletes, recreational exercisers, and groups with specific nutritional needs. The use of nutritional supplements in sporting performance will also be examined.

SPCO107-21S1 (C) Semester 1**SPCO107-21S1 (D) Semester 1****SPCO 110 Practicum 1**

15 Points 0.1250 EFTS

This course provides the application of sport coaching theory to practice. Students will apply and evaluate aspects of coaching pedagogy and exercise science during coaching sessions with a primary school team, through a season of practices and interschool games.

P: 1) Enrolment in BSpC degree, or 2) Approval of Programme Coordinator based on police vetting

C: SPCO 101

R: EDSP 130

SPCO110-21W (C) Whole Year (S1 and S2)**SPCO110-21W (D) Whole Year (S1 and S2)****SPCO 126 Land Journeys and Ethics**

15 Points 0.1250 EFTS

Informed by experiential education approaches, students will complete a weekend backpacking trip with instructors as part of the overall course and use reflections from these experiences, in conjunction with coursework on human-nature relationships, to critically analyse and develop a personal land ethic. The field trip explores the concept of wilderness in land ethics through a direct experience of actual wilderness. The course has a focus on bi-culturally competent and globally connected understandings of the relationships between humans and nature.

R: TEPE 112

SPCO126-21S2 (C) Semester 2**SPCO 201 Learner-Centred Teaching and Coaching**

15 Points 0.1250 EFTS

This course engages students with exciting and innovative coaching and teaching approaches that are learner-centred, inquiry-based and growing in popularity across the globe. Through a blend of theory and practical application students will gain a working knowledge of the philosophical and pedagogical developments underpinning this approach. This is enhanced through student engagement with cutting-edge research as they critically reflect upon their own teaching and coaching experiences as active learners.

P: Any 60 points at 100 level from any subject.

SPCO201-21S2 (C) Semester 2**SPCO201-21S2 (D) Semester 2****SPCO 204 Biomechanics**

15 Points 0.1250 EFTS

Gain knowledge of the mechanical principles governing movement, with application to a range of sporting and other movement contexts. The course will explore biomechanical concepts through both tutorial-based and practical activities, equipping students to analyse and assess movement from both qualitative and quantitative viewpoints.

P: Any 60 points at 100 level from any subject.

R: TEPE 202

SPCO204-21S1 (C) Semester 1**SPCO204-21S1 (D) Semester 1****SPCO 207 Ethics in Sport**

15 Points 0.1250 EFTS

In achieving a dominant position, sport has become institutionalised and its meaning, significance and moral and ethical influence has a profound and powerful effect on society. This course introduces students to philosophical, moral and ethical foundations of sport. It examines a range of philosophical views of sport and considers its powerful influence on the attitudes and values of the individual and contemporary society. Sporting scenarios are examined and ethical decision making applied to critique the role, functions, meaning, and moral bases of sport.

P: Any 60 points at 100 level from any subject.

SPCO207-21S2 (C) Semester 2**SPCO207-21S2 (D) Semester 2****SPCO 208 Sport and Culture in New Zealand**

15 Points 0.1250 EFTS

Sport does more than merely reflect mainstream society and culture. It plays a significant and dynamic role in the production and reproduction of culture. Approached from a critical perspective this course examines sport in New Zealand with a focus on its unique bi-cultural nature and the social and cultural issues related to its practice and its significance in New Zealand. The progression towards successful integration of some aspects of Māori and NZ European cultures is a feature of New Zealand sport on the world stage but the interaction of culture and sport is complex and tied into larger social issues that are often overlooked. This course examines a range of cultural and social issues in New Zealand sport with a focus on its bicultural nature and how this should inform coaching practice. With teaching and assessment built around field trips it adopts innovative experiential pedagogy with learning bases upon real world experience.

P: Any 60 points at 100 level from any subject.

SPCO208-21S2 (D) Semester 2**SPCO208-21S2 (C) Semester 2****SPCO 209 Exercise Physiology**

15 Points 0.1250 EFTS

This course is designed to develop each student's knowledge and skills in relation to the theory and practice of exercise physiology. The lecture sessions will cover, in detail, the energy systems as they underpin health and performance. The laboratory sessions will provide students with the knowledge, time and opportunity to develop hands-on practical skills for fitness assessments both in the field and laboratory – essential for every exercise physiologist. In addition students will gain experience and skills in reading and critiquing research papers, analysing data using statistics as well as writing research papers.

P: SPCO 104

R: SPCO 206, TEPE 203, TEPE 103

SPCO209-21S1 (C) Semester 1**SPCO209-21S1 (D) Semester 1****SPCO 210 Practicum 2**

15 Points 0.1250 EFTS

This course provides further application of sport coaching theory to practice. Students will plan, implement and evaluate aspects of coaching pedagogy, sociology and sport science while coaching their selected sport. This occurs during coaching sessions with an Under 15 team, throughout a season of practices and interschool or club games/events.

P: SPCO 110 and approval based on police vetting.

R: EDSP 230

SPCO210-21W (C) Whole Year (S1 and S2)**SPCO210-21W (D) Whole Year (S1 and S2)****SPCO210-21A (C) Starts Anytime****SPCO210-21A (D) Starts Anytime****SPCO 221 Injury and Rehabilitation Prescription**

15 Points 0.1250 EFTS

This course will provide students with an understanding of prevention, treatment, management and rehabilitation of acute and chronic sports injuries, essential for sports coaches. The injury risk to special population groups such as children, adolescents, and female athletes will be highlighted.

P: Any 60 points at 100 level from any subject, or any 15 points at 100 level from SPCO.

SPCO221-21S2 (C) Semester 2**SPCO221-21S2 (D) Semester 2****SPCO 222 Analysis of Expeditioning**

15 Points 0.1250 EFTS

This course will extend each student's knowledge and understanding of coaching water based activities though involvement with canoesport - specifically canoeing as a vehicle for journeying and expeditioning. Through the course students will develop practical canoe and expeditioning skills which will form the basis for a safe descent of a South Island river during a 3 - 5 day expedition. Students will collect data for a socio-cultural, environmental, bi-cultural, historical or physiological study whilst taking part in the canoe expedition.

P: Any 60 points at 100 level from any subject, or any 15 points at 100 level from SPCO.

SPCO222-21S1 (C) Semester 1

SPCO 223 Applied Sport Psychology

15 Points 0.1250 EFTS

This course will examine the theory, philosophy and practice of psychological skills training in sport. Students will critically reflect on the application of sport psychology theories to psychological skills training programmes, examine the social psychology influences of sport and exercise participation and apply this knowledge to sport coaches and the sporting environment.

P: Any 60 points at 100 level from any subject, or any 15 points at 100 level from SPCO

SPCO223-21S1 (C) Semester 1

SPCO223-21S1 (D) Semester 1

SPCO 224 Sport Management

15 Points 0.1250 EFTS

Sport Management in New Zealand is experiencing a noted increase in professional organisational management approaches as well as maintaining a strong volunteer base at grass-roots level. Effective sport managers need to have a varying set of skills and be aware of best practices for the effective management of people, club and sporting events. Volunteer management, funding sources/models, development models, marketing, technology and other future issues will be discussed for the wide variety of sport organisations in New Zealand, from clubs to fitness centres to national/regional sports organisations.

P: Any 60 points at 100 level from any subject, or any 15 points at 100 level from SPCO.

SPCO224-21S1 (C) Semester 1

SPCO224-21S1 (D) Semester 1

SPCO 226 Rock Climbing Contexts and Techniques

15 Points 0.1250 EFTS

This course develops students' skills and knowledge relevant to contemporary rock climbing physiology and educational approaches. Content focuses on knowledge necessary to develop, implement and evaluate a training programme to enhance rock climbing performance. Teaching will also focus on current approaches to teaching and analysing rock climbing movement skills both indoors and on natural rock outdoors. The course uses a type of rock climbing called bouldering (completing difficult moves close to the ground without the ropes) with only a small amount of rope work in preparation for SPCO326 Rock Climbing Leadership. There are two field trips to Kura Tawhiti/ Castle Hill where students learn about the importance of place to climbers and significance to tangata whenua.

P: Any 60 points at 100 level from any subject, or any 15 points at 100 level from SPCO.

R: TEPE 110

SPCO226-21S1 (C) Semester 1

Limited entry. See limitation of entry regulations.

SPCO 231 Introduction to Performance Analysis

15 Points 0.1250 EFTS

This course provides students with an understanding and appreciation of the development and position of performance analysis in sport. Practical skills using modern performance analysis techniques will be developed. Students will be required to track and analyse the performance of an athlete within a team sport through the duration of the course.

P: Any 60 points at 100 level from any subject, or any 15 points at 100 level from SPCO.

SPCO231-21S2 (C) Semester 2

SPCO231-21S2 (D) Semester 2

SPCO 241 Introduction to Strength and Conditioning

15 Points 0.1250 EFTS

This course provides students with an understanding and appreciation of the position of strength and conditioning coaches in both occupational and sporting environments. Practical skills using modern strength and conditioning techniques and technologies will be developed. Students will be required to coach and analyse the performance of two participants from an occupational / sport perspective through the duration of the course.

P: Any 60 points at 100 level from any subject, or any 15 points at 100 level from SPCO.

SPCO241-21S1 (C) Semester 1

SPCO241-21S1 (D) Semester 1

SPCO 242 Nutrition and Exercise Prescription

15 Points 0.1250 EFTS

This course provides students with a multidisciplinary perspective and appreciation of contemporary issues in weight management. Applied weight management strategies and techniques fundamental to strength and conditioning will be developed. The coursework is designed to assist students in gaining proficiency supporting and working with weight management clientele.

P: Any 60 points at 100 level from any subject, or any 15 points at 100 level from SPCO.

SPCO242-21S2 (C) Semester 2

SPCO242-21S2 (D) Semester 2

SPCO 301 Sport Coaching and Leadership

15 Points 0.1250 EFTS

This course critically examines and applies sport coaching pedagogy in a range of sporting contexts. Importantly, this course looks at the interrelatedness of leadership, power and culture and the effects these factors may have on a positive team and organisational environment. Students will critically examine the possible directions of sport coaching and explore possible ways of managing such changes. Students will explore the course content through micro-

coaching sessions within a variety of sport coaching contexts.

P: SPCO 201

SPCO301-21S2 (C) Semester 2

SPCO301-21S2 (D) Semester 2

SPCO 302 Athlete-Centred Coaching for Individual Sports

15 Points 0.1250 EFTS

Research led but grounded in practice, this course engages students with some of the most recent and cutting edge developments in sport coaching that have sought to apply the wide range of benefits evident in athlete-centred approaches to coaching team sports to individual sports and coaching other physical activities. It engages students with approaches to applying the holistic and humanistic pedagogical principles of athlete centred coaching in team games such as Game Sense to individual, technique-intensive sports such as swimming and athletics. Specifically, it draws on the concept of Positive Pedagogy informed by the pedagogical features of Game Sense adapted to individual sports, Positive Psychology and the work on positive approaches to promoting health and well-being. It engages students with the most recent developments in this field while providing experience through practical sessions as learners and coaches with assessment structured around reflections on this experience informed by the literature.

P: Any 60 points at 100 level from any subject, or any 15 points at 100 level from SPCO.

SPCO302-21S1 (C) Semester 1

SPCO302-21S1 (D) Semester 1

SPCO 304 Applied Biomechanics

15 Points 0.1250 EFTS

This course explores practical applications of biomechanics to equip students to support athletes to enhance sporting performance and minimise injury occurrence. Students will gain an understanding of the use of analytical methods and tools to make quantitative measurements and apply the principles of biomechanics to measuring and supporting performance.

P: SPCO 204, or 30 points at 100-level MATH or PHYS and approval from Programme Coordinator.

SPCO304-21S2 (C) Semester 2

SPCO304-21S2 (D) Semester 2

SPCO 305 Sociology of Sport

15 Points 0.1250 EFTS

This course will provide students with the opportunity to examine the socio-cultural context of sport through a range of sociological perspectives relevant to sport coaching, physical education teaching and sport leadership and management. It identifies concerns with the ongoing development of sport as a social institution framed by tensions between the notion of sport as education and sport as business. Issues examined include the impact of globalisation, the commodification of sport, the influence of sport on young people, media-sport, and sport and gender.

P: SPCO 208

SPCO305-21S1 (C) Semester 1

SPCO305-21S1 (D) Semester 1

SPCO 308 Inclusive Practice in Teaching and Coaching

15 Points 0.1250 EFTS

This course examines sociological and pedagogical theories and practices related to sport for athletes with disabilities. Historical and contemporary perspectives will be critiqued and students will gain an understanding of the implications of these perspectives for sporting environments. The course will provide students with the opportunity to apply inclusive coaching practices in a variety of settings.

P: Any 30 points at 200 level from SPCO.

R: EDSP 285

SPCO308-21S1 (C) Semester 1

SPCO308-21S1 (D) Semester 1

SPCO 309 Applied Exercise Physiology

15 Points 0.1250 EFTS

This course provides students with a comprehensive examination of the interaction between the body's energy systems and its response to training. Students learn to critically analyse current trends in nutritional support and training strategies. Students are required to assess, train and analyse the performance of a small group of athletes through the duration of the course.

P: 1) SPCO 209 or 2) SPCO 206

R: SPCO 306

SPCO309-21S1 (C) Semester 1

SPCO309-21S1 (D) Semester 1

SPCO 310 Practicum 3

15 Points 0.1250 EFTS

This course provides a final application of sport coaching theory to practice. Students will plan, implement and critically evaluate aspects of coaching pedagogy, sociology and sport science while coaching their selected sport. This will occur during coaching sessions with a team or individuals at any sporting level, throughout a season of practices and games or events.

P: SPCO 210 or SPCO 241

SPCO310-21W (C) Whole Year (S1 and S2)

SPCO310-21W (D) Whole Year (S1 and S2)

SPCO310-21A (C) Starts Anytime

SPCO310-21A (D) Starts Anytime

SPCO 320 Internship

15 Points 0.1250 EFTS

This course brings together knowledge gained throughout the Sport Coaching programme, providing students with experience in a professional sport-related workplace of their choice, with a view to future employment or further study. The internship provides students with an opportunity to gain an understanding of management structures and practices with a professional sporting organisation, while specialising in the area of their chosen endorsement. Students will work towards a substantial project in an authentic setting. Students will develop critical reflection skills and technical and interpersonal skills required to work successfully in a professional workplace.

P: Successful completion of required 100 level and 200 level courses from the Sport Coaching schedule

SPCO320-21A (C) Starts Anytime

SPCO320-21A (D) Starts Anytime

SPCO 326 Rock Climbing Leadership

15 Points 0.1250 EFTS

This course will extend each student's knowledge and understanding of the educational possibilities of top-roped rock climbing in New Zealand. Through the course students will critically analyse the literature relevant to top-roped rock climbing and use this analysis to plan, implement and evaluate a rock climbing experience which incorporates contemporary approaches to outdoor education and is supported by the New Zealand Curriculum. The technical and legal aspects of safety and risk are explored and students develop skills in establishing educational and safe rock climbing experiences. Through field trips to climbing areas in the Port Hills/ Nga Kohatu Whakarekareka o Tamatea Pokai Whenua, students learn about the importance of place to climbers and the significance to Tangata Whenua.

P: Any 60 points at 200 level from any subject.

R: TEPE 210

SPCO326-21S2 (C) Semester 2

Limited entry. See limitation of entry regulations.

SPCO 331 Performance Analysis 2: Tools and Techniques

15 Points 0.1250 EFTS

This course equips students to analyse skilled performance in both a team and individual setting using a range of software, equipment and methodologies. Successful students will be able to analyse technique, tactical, movements and decision making abilities. The importance of designing effective key performance indicators and producing opposition analysis and scouting reports will be introduced and discussed. Modern techniques will be taught including the SportsCode Pro video analysis software. Students will get an opportunity to test and become more proficient in effective communication methods.

P: SPCO 231

SPCO331-21S1 (C) Semester 1

SPCO331-21S1 (D) Semester 1

SPCO 332 Applied Performance Analysis

15 Points 0.1250 EFTS

This course further develops the practical and theoretical skills of performance analysis learned in previous related courses. Students will learn about psychological and physiological aspects of performance analysis. Modelling of performance and performance forecasting techniques will be introduced and critically analysed. Interpreting big data will be discussed as well as profiling individuals and teams over the duration of a season and beyond. Best practices from New Zealand and international teams will be critically discussed along with the latest research.

P: SPCO 231

SPCO332-21S2 (C) Semester 2

SPCO332-21S2 (D) Semester 2

SPCO 335 Learning through Sport and Exercise Science

15 Points 0.1250 EFTS

This course develops students' capability to learn in, through and about the sport & exercise sciences and translate this knowledge into quality learning experiences. Students will consider theories of learning and consider their relevance in creating quality learning experiences within Health & Physical Education in the New Zealand Curriculum. There is a strong focus on critical analysis and application of knowledge.

P: SPCO 209

SPCO335-21S1 (C) Semester 1

Limited entry. See limitation of entry regulations.

SPCO 336 Physical Education Curriculum in Action

15 Points 0.1250 EFTS

This course will draw on the historical curriculum development literature in physical education and critically evaluate how this has shaped current understandings of curriculum knowledge, learning and teaching. Students will also consider the embodiment of movement, ethics and the role technology might play in creating personal meaning and understanding in future iterations of physical education. Through a blend of theory and practical sessions, students will conceptualise, implement and critically reflect on effective teaching and learning approaches in physical education contexts in Aotearoa New Zealand.

P: SPCO 208

SPCO336-21S2 (C) Semester 2

Limited entry. See limitation of entry regulations.

SPCO 341 Strength and Conditioning for Sports Performance

15 Points 0.1250 EFTS

This course provides students with an introduction to the software and technologies used by high performance sports teams. Students will gain experience implementing innovative training methodologies, and learn to organise and concisely report large sets of training and testing data. Furthermore they will develop practical skills working in a team environment and will learn to prioritise training objectives within a short-term training plan.

P: SPCO 241

SPCO341-21S2 (C) Semester 2

SPCO341-21S2 (D) Semester 2

SPCO 343 Performance Nutrition and Recovery Monitoring

15 Points 0.1250 EFTS

This course challenges students to critically assess various contemporary nutritional and recovery techniques and delve into the research to determine their effectiveness. Students will look at the multidisciplinary relationship between the sports nutritionist and the strength and conditioning coach. Additionally, students will gain an appreciation of when it is appropriate to recommend a particular supplement / recovery intervention.

P: SPCO 242

SPCO343-21S1 (C) Semester 1

SPCO343-21S1 (D) Semester 1

Sport Science

School of Health Sciences

Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.

SSCI 403 The Competitive Edge: Innovation in Sport Science

30 Points 0.2500 EFTS

The course will examine how to gain a competitive edge through the application of sport science. It will consider aspects in relation to a range of disciplines including, but not limited to, biomechanics, exercise physiology, strength and conditioning, sport psychology, sport nutrition, performance analysis and motor learning. The course will be set in the context of sports science in a contemporary bicultural Aotearoa New Zealand.

P: Subject to approval of the Head of School

SSCI403-21S1 (C) Semester 1

SSCI 404 Advanced Internship for Sport Science

30 Points 0.2500 EFTS

This course places students in an advanced internship in a professional sporting workplace, with a view to enhancing employability through working in an authentic workplace setting. Students will work within an existing sporting workplace to gain experience in providing sport science support and development in a professional environment.

P: Subject to approval to the Head of School

SSCI404-21A (C) Starts Anytime

SSCI 407 Advanced Strength and Conditioning

30 Points 0.2500 EFTS

The course explores recent and more complex aspects of strength and conditioning. The focus of this course will be upon both sport performance and health improvement. The course will be practical and theoretical and require students to critique new methods and recent research directions in the field.

P: Subject to approval of the Head of School

SSCI407-21S2 (C) Semester 2

SSCI 408 Sport Science Independent Study

30 Points 0.2500 EFTS

This course allows for supervised research in an area of personal interest. It is of particular value for sports scientists who wish to make an in-depth examination of a specific issue and develop research expertise.

P: Subject to approval of the Head of School

SSCI408-21A (C) Starts Anytime

SSCI 680 Sport Science Research Project

30 Points 0.2500 EFTS

The course requires students to demonstrate the application of their knowledge and understanding in relation to a specific sport science issue or opportunity, and to take an active role in developing an investigation for the benefit of a wider audience. The course will require students to plan a small-scale project and present the findings in the form of a written report.

SSCI680-21A (C) Starts Anytime

SSCI 681 Sport Science Research Dissertation

60 Points 0.5000 EFTS

The course requires students to demonstrate the application of their knowledge and understanding in relation to a specific sport science issue or opportunity, and to take an active role in developing an investigation for the benefit of a wider audience. The course will require students to plan a small-scale dissertation and present the findings in the form of a written dissertation.

SSCI681-21A (C) Starts Anytime

Statistics

School of Mathematics and Statistics

STAT 101 Statistics 1

15 Points 0.1250 EFTS

An introduction to the ideas, techniques and applications of statistics and probability.

R: STAT 111, STAT 112, DIGI 103

EQ: STAT 111, STAT 112, DIGI 103

STAT101-20SU2 (C) Summer (Nov 20)

STAT101-21S1 (C) Semester 1

STAT101-21S2 (C) Semester 2

STAT 201 Applied Statistics

15 Points 0.1250 EFTS

A practical introduction to commonly used statistical methods, designed to increase the breadth of statistics skills. The emphasis is on the application of statistical techniques to solve problems involving real data.

P: STAT 101 or 15 points from 100-level MATH or EMTH (excluding MATH 110)

R: FORE 210, STAT 220, FORE 222, STAT 222

STAT201-21S1 (C) Semester 1

STAT 202 Regression Modelling

15 Points 0.1250 EFTS

Regression models are the most widely used statistical tools for examining the relationships among variables. This course will provide a practical introduction to the fundamentals of regression modelling.

P: STAT 101 or 15 points from 100-level MATH or EMTH (excluding MATH 110)

R: FORE 210, STAT 220, FORE 224, STAT 224

STAT202-21S2 (C) Semester 2

STAT 211 Random Processes

15 Points 0.1250 EFTS

This course introduces some of the most useful probability concepts and models that are widely used in biology, medicine, economics, finance, engineering, physics and many other areas. The models that will be covered are Markov chains and Poisson processes.

P: 15 points from MATH 102, EMTH 118 or MATH 199; and another 15 points from 100 level STAT, MATH or EMTH (excluding MATH 101 & MATH 110)

R: STAT 216

STAT211-21S1 (C) Semester 1

STAT 213 Statistical Inference

15 Points 0.1250 EFTS

This course provides the theoretical foundations for statistical estimation and testing at an introductory level. These are essential for more advanced studies in statistics at higher levels because they facilitate a deeper understanding of statistical techniques and their applications.

P: 15 points from MATH 102, EMTH 118 or MATH 199; and another 15 points from 100 level STAT, MATH or EMTH (excluding MATH 101 & MATH 110)

R: STAT 214

STAT213-21S2 (C) Semester 2

STAT 221 Introduction to Statistical Computing Using R

15 Points 0.1250 EFTS

Statistical computing skills are essential within the modern workplace of statisticians and other quantitative/analytical positions. This course will develop and build your skills in computer programming for statistics, using the free statistical computing package R which is one of the most widely used tools for data analysis. The course provides excellent preparation for the many UC statistics courses that use R and, more generally, courses that require quantitative computing skills. The newly developed computing skills will also be used to unleash the power of modern computational statistical techniques for analysing complex real world data.

P: 15 points from MATH 102, EMTH 118 or MATH 199; and another 15 points from 100 level STAT, MATH or EMTH (excluding MATH 101 & MATH 110)

R: STAT 218

STAT221-21S2 (C) Semester 2

STAT 312 Data Collection and Sampling Methods

15 Points 0.1250 EFTS

Data collection and sampling methods. Designs for surveys of populations.

P: 30 points from 200 level STAT

STAT312-21S1 (C) Semester 1

STAT 313 Computational Statistics

15 Points 0.1250 EFTS

This course is an introduction to nonparametric statistical methods based on empirical distribution functions, kernel smoothing, bootstrap, and resampling. We will study these methods by looking at their theoretical properties and their performance in practical data analysis

P: 15 points from 200 level MATH or EMTH, STAT 210-299 or DATA 203

STAT313-21S1 (C) Semester 1

STAT 314 Bayesian Inference

15 Points 0.1250 EFTS

This course explores the Bayesian approach to statistics by considering the theory, methods for computing Bayesian solutions, and examples of applications.

P: 15 points from 200 level MATH or EMTH, STAT 210-299 or DATA 203

STAT314-21S2 (C) Semester 2

STAT 315 Multivariate Statistical Methods

15 Points 0.1250 EFTS

Detailed study of multivariate methods. Application of multivariate methods, test statistics and distributions.

P: 15 points from MATH 102, EMTH 118 or MATH 199; and 15 points from 200 level STAT; and a further 15 points from 200 level STAT, or DATA 203 or MATH 103.

STAT315-21S1 (C) Semester 1

STAT 317 Time Series Methods

15 Points 0.1250 EFTS

Analysis of sequentially collected data including data modelling and forecasting techniques.

P: 15 points from MATH 102, EMTH 118 or MATH 199; and another 30 points from 200 level STAT or ECON 213

R: ECON 323, FINC 323

STAT317-21S2 (C) Semester 2

STAT 318 Data Mining

15 Points 0.1250 EFTS

Parametric and non-parametric statistical methodologies and algorithms for data mining.

P: 15 points from MATH 102, EMTH 118 or MATH 199; and another 30 points from 200 level STAT, COSC, DATA, MATH or EMTH

STAT318-21S1 (C) Semester 1

STAT318-21S2 (C) Semester 2

STAT 319 Generalised Linear Models

15 Points 0.1250 EFTS

STAT319 is a course in Generalised Linear Models (GLM), suited to anyone with an interest in analysing data. In this course we introduce the components of GLM and other advanced data analysis techniques. We use the free-ware package R. R is becoming the preferred computer package for many statisticians. In this course we will show you how to use the package, enter, manipulate and analyse data in R.

P: 30 points from STAT 200-299

STAT319-21S1 (C) Semester 1

STAT 391 Special Topic

15 Points 0.1250 EFTS

This special topic will allow flexibility to offer new or one-off courses of strategic importance to the Department. Its potential uses include: new staff developing a course in their areas of research specialisation; visiting Erskine fellows offering courses covering exciting new developments.

P: Subject to the approval of the Head of School.

STAT391-21S1 (C) Semester 1

STAT 392 Special Topic

15 Points 0.1250 EFTS

This special topic will allow flexibility to offer new or one-off courses of strategic importance to the Department. Its potential uses include: new staff developing a course in their areas of research specialisation; visiting Erskine fellows offering courses covering exciting new developments.

P: Subject to approval of the Head of School.

STAT392-21S2 (C) Semester 2

STAT 393 Independent Course of Study

15 Points 0.1250 EFTS

P: Subject to approval of the Head of School.

STAT393-21S1 (C) Semester 1**STAT 394 Independent Course of Study**

15 Points 0.1250 EFTS

P: Subject to approval of the Head of School.

STAT394-21S2 (C) Semester 2**STAT 395 Statistics Project**

15 Points 0.1250 EFTS

This 150 hour course provides students with an opportunity to develop statistical research skills to extend and strengthen their understanding of an area of statistics. Note: This course cannot be included as part of the 300 level requirement for a Mathematics or Statistics major.

P: Subject to approval of the Head of School

STAT395-20SU2 (C) Summer (Nov 20)**Tāura | Postgraduate**

Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.

STAT 445 Financial Time Series

15 Points 0.1250 EFTS

P: Subject to approval of the Head of School.

STAT445-21S2 (C) Semester 2**STAT 446 Generalised Linear Models**

15 Points 0.1250 EFTS

P: Subject to approval of the Head of School.

STAT446-21S1 (C) Semester 1**STAT 447 Official Statistics**

15 Points 0.1250 EFTS

This course provides an overview of the key areas of Official Statistics. Topics covered include data sources (sample surveys and administrative data); the legal and ethical framework of official statistics; an introduction demography; the collection and analysis of health, social and economic data; data visualisation including presentation of spatial data; data matching and integration; the system of National Accounts.

P: Subject to approval of the Head of School

R: STAT 474

STAT447-21S2 (C) Semester 2**STAT 448 Big Data**

15 Points 0.1250 EFTS

STAT448 is suited to anyone with an interest in data, and how it can be used in decision making. In this course we introduce you to big data and some of the techniques you can use to access, explore and investigate it. Students enrolling in this course should be familiar with statistics and with programming.

P: Subject to approval of the Head of School

STAT448-21S1 (C) Semester 1**STAT448-21S2 (C) Semester 2****STAT 449 Project**

30 Points 0.2500 EFTS

P: Subject to approval of the Head of School.

STAT449-21W (C) Whole Year (S1 and S2)**STAT449-21CY (C) Cross Year****STAT 450 Advanced Statistical Modelling**

15 Points 0.1250 EFTS

This course focuses on recent advances in modelling techniques for analysing data including mixed models and nonparametric tests.

P: Subject to approval of the Head of School.

STAT450-21S1 (C) Semester 1**STAT 455 Data Collection and Sampling Methods**

15 Points 0.1250 EFTS

P: Subject to approval of the Head of School.

STAT455-21S1 (C) Semester 1**STAT 456 Time Series and Stochastic Processes**

15 Points 0.1250 EFTS

P: Subject to approval of the Head of School.

R: ECON 663, ECON 614

STAT456-21S2 (C) Semester 2**STAT 459 Computational Statistics**

15 Points 0.1250 EFTS

This course is an introduction to nonparametric statistical methods based on empirical distribution functions, kernel smoothing, bootstrap, and resampling. We will study these methods by looking at their theoretical properties and their performance in practical data analysis.

P: Subject to approval of the Head of School.

STAT459-21S1 (C) Semester 1**STAT 461 Bayesian Inference**

15 Points 0.1250 EFTS

P: Subject to approval of the Head of School.

STAT461-21S2 (C) Semester 2**STAT 462 Data Mining**

15 Points 0.1250 EFTS

P: Subject to approval of the Head of School.

STAT462-21S1 (C) Semester 1**STAT462-21S2 (C) Semester 2****STAT 463 Multivariate Statistical Methods**

15 Points 0.1250 EFTS

P: Subject to approval of the Head of School.

STAT463-21S1 (C) Semester 1**STAT 471 Special Topic in Statistics**

15 Points 0.1250 EFTS

P: Subject to approval of the Head of School.

STAT471-21S1 (C) Semester 1**STAT 475 Independent Course of Study**

15 Points 0.1250 EFTS

P: Subject to approval of the Head of School.

STAT475-21S1 (C) Semester 1**STAT475-21S2 (C) Semester 2****STAT 479 Special Topic**

15 Points 0.1250 EFTS

P: Subject to approval of the Head of School

STAT479-21S1 (C) Semester 1**STAT479-21S2 (C) Semester 2****STAT 491 Research Project**

15 Points 0.1250 EFTS

This 150 hour course provides students with an opportunity to develop mathematical or statistical research skills to extend and strengthen their understanding of an area of mathematics or statistics. Students will be involved in a research project with a supervisor. The project will be closely aligned with the supervisor's existing research programme.

P: Subject to approval of the Head of School.

STAT491-20SU2 (C) Summer (Nov 20)**STAT491-21A (C) Starts Anytime****STAT 690 MSc Thesis**

120 Points 1.0000 EFTS

P: Subject to approval of the Head of School.

STAT690-21A (C) Starts Anytime*Part-time enrolment (0.65 EFTS) is available on approval.***STAT 695 MA Thesis**

120 Points 1.0000 EFTS

P: Subject to approval of the Head of School.

STAT695-21A (C) Starts Anytime

STAT 790 Statistics PhD

120 Points

1.0000 EFTS

P: Subject to approval of the Head of School.

STAT790-21A (C) Starts Anytime

Part-time enrolment (0.65 EFTS) is available on approval. *From 1 January 2008, international students who are residing in New Zealand on a NZ Immigration Study Visa pay the Domestic Fee for this course. International fees apply for all other courses.

Taxation

Department of Accounting and Information Systems

Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.

TAXA 690 MCom Thesis

120 Points

1.0000 EFTS

P: Subject to approval of the Head of Department.

R: ACIS 690, AFIS 690

TAXA690-21A (C) Starts Anytime

Part-time enrolment (0.65 EFTS) is available on approval.

TAXA 694 MCom Thesis

90 Points

0.7500 EFTS

P: Subject to approval of the Head of Department

TAXA694-21A (C) Starts Anytime**TAXA 790 Taxation PhD**

120 Points

1.0000 EFTS

P: Subject to approval of the Head of Department.

R: ACIS 790, AFIS 790

TAXA790-21A (C) Starts Anytime

Part-time enrolment (0.65 EFTS) is available on approval. *From 1 January 2008, international students who are residing in New Zealand on a NZ Immigration Study Visa pay the Domestic Fee for this course. International fees apply for all other courses.

Teacher Education

School of Teacher Education

EDMI 317 Rangahau Māori (Special interest research paper).

15 Points

0.1250 EFTS

The Rangahau Māori, special interest paper encourages akonga to investigate a facet of tikanga Māori, te reo Māori or te ao Māori that they have a passion for or special interest in. This research paper empowers akonga to learn about kaupapa Māori theories and methodologies and embed these in their research. The delivery of this paper will be mostly self-directed, although two wananga (2x block days) will be a part of the course so that individual guidance and support can be offered to akonga pertaining to their research area.

P: EDMI 311

EDMI317-21S2 (C) Semester 2

Limited entry. See limitation of entry regulations.

EDMT 602 Toward Māori Success: Presence, Engagement and Achievement

15 Points

0.1250 EFTS

The course explores theoretical notions specific to identity, culture, knowledge, evidence and pedagogy, providing a critical approach to understanding the enablers of educational success for Māori learners in contemporary Aotearoa New Zealand. Pre-service teachers will be encouraged to critically reflect on the significance of the Treaty of Waitangi principles in the broader education sense. Kaupapa Māori worldview perspectives will be drawn on by way of a series of frameworks to inform the threads of culturally responsive principles and strategies for action.

P: EDMT 601.

RP: Previous and/or concurrent engagement with Te Reo Māori

EDMT602-21X (C) 08 Feb 2021 - 07 Nov 2021**EDMT 603 Creating Inclusive Learning Environments for Diverse Learners**

15 Points

0.1250 EFTS

This course establishes the theoretical framework and research base for inclusive practices in classrooms and schools. Pre-service teachers will critically examine, apply and evaluate models and practices that enable the development of engaging, inclusive environments for all students and that build meaningful partnerships with families and whānau, and with other professionals.

P: EDMT 601

EDMT603-21X (C) 08 Feb 2021 - 07 Nov 2021**EDMT 605 Inquiry and Evidence-based Practice for Inclusive Learning Contexts 2**

30 Points

0.2500 EFTS

This course extends students' professional and pedagogical understandings, knowledge and skills through refinement and expansion of the evidence-based inquiry cycle process begun in prior programme coursework and learning experiences. Students will synthesise research-informed and experience-based knowledge in critical examination of their own and others' emerging professional and pedagogical practices.

P: EDMT 604

C: EDMT 612 or EDMT 622 or EDMT 632

EDMT605-21X (C) 05 July 2021 - 07 Nov 2021**EDMT 612 Curriculum, Pedagogy and Assessment in Primary Contexts 2: Engaging Diverse Learners in NZC**

30 Points

0.2500 EFTS

The course continues to explore the development of pedagogical content knowledge, including evidence-based approaches to curriculum design and implementation within the context of the New Zealand curriculum. The course will focus on Future Focused (Science, Technology and Digital Literacies), Community-based (Health, Physical Education, Social Sciences and Learning Languages) and the Arts (Dance, Drama, Music and Visual Arts) learning areas as enablers of curriculum engagement for all learners. Embedded practice experiences will occur throughout the course to ensure that students will engage in iterative cycles of reflection and refinement of curriculum development and implementation.

P: EDMT 611

C: EDMT 605

EDMT612-21X (C) 05 July 2021 - 07 Nov 2021**EDMT 622 Curriculum, Pedagogy and Assessment in Secondary Contexts 2: Engaging Diverse Learners in NZC and NCEA**

30 Points

0.2500 EFTS

Initial teacher education (secondary) students critically engage with the New Zealand Curriculum (NZC) and the New Zealand national qualification for secondary schools, the National Certificate for Educational Achievement (NCEA). They examine 'puzzles of practice' related to teaching, learning and assessment within subject contexts, focusing on the learning needs of diverse students and schooling Years 11 to 13. Embedded teaching practice experiences provide opportunities for pre-service teachers to design and evaluate planning for learning and to use assessment evidence to refine teacher planning and classroom curriculum design.

P: EDMT 621

C: EDMT 605

EDMT622-21X (C) 05 July 2021 - 07 Nov 2021**TECE 105 Integrated Curriculum/ Ako and Whanaungatanga**

15 Points

0.1250 EFTS

This course provides initial teacher education students with the knowledge of the central role of relationships in children's learning. The course will give an introduction to current theoretical debates related to early childhood curricula, investigating what is meant by the term 'curriculum'. Through the course students will develop their knowledge and understanding of the influence of early childhood curriculum document(s) in the context of Aotearoa New Zealand and the notion of learning through play and the importance of relationships in achieving this. The course aims to bring students to an understanding of how a range of domains can be brought together through a holistic and integrated approach to create meaningful learning experiences for children.

TECE105-21YC2 (C) Year C Second Half**TECE105-21YC2 (D) Year C Second Half****TECE 106 Rethinking Infants and Toddlers/Te Kōhungahunga**

15 Points

0.1250 EFTS

This course will introduce and explore a variety of early childhood educational contexts and philosophies to demonstrate teaching and learning experiences and practices for infants, and toddlers, with their families and whānau.

TECE106-21YC1 (C) Year C First Half**TECE106-21YC1 (D) Year C First Half****TECE 205 Negotiated, co-constructed curriculum: The multiple languages of children**

15 Points

0.1250 EFTS

This course will examine the multiple languages of children within the negotiated, co-constructed early childhood curriculum of the Aotearoa New Zealand bicultural context. Students will consider the role of intentional teaching in planning for and facilitating possibilities and opportunities for multiple language experiences. Affordances and constraints for learning within the environment, and building confidence in students to listen to infants, toddlers and young children, and promote these experiences will be the foci of this course.

P: TECE 105

TECE205-21S2 (C) Semester 2**TECE205-21S2 (D) Semester 2**

TECE 355 Social and Cultural Studies 1

15 Points 0.1250 EFTS

Early childhood teachers need to be aware of the cultures within the society of Aotearoa/ New Zealand. They must understand what it means to be bicultural and how to function as teachers in a multicultural society, guided by Te Tiriti o Waitangi. This course will focus on New Zealand as a bicultural and multicultural society, and develop students' knowledge and understanding of te Tiriti o Waitangi. This course will also provide students with an historical context within which to place contemporary early childhood provision in New Zealand.

TECE355-21YB1 (D) Year B First Half**TECE 356 Social and Cultural Studies 2**

15 Points 0.1250 EFTS

This course examines the role of early childhood professionals as advocates for children and families. Students will consider the parliamentary process, legislation and policy, and issues related to advocacy and children's rights.

P: TECE 355

TECE356-21S2 (D) Semester 2**TECE 357 The Early Childhood Context 1**

15 Points 0.1250 EFTS

Early Childhood teachers have a responsibility to foster ongoing and diverse learning pathways for children. This course will enable students to provide inclusive early childhood education, and to partner with family/whānau in the education and care of infants, toddlers and young children. Students will explore curriculum theory and practice and will examine their role in providing curriculum experiences. Students will also investigate issues in Early Childhood Education and paradigms of childhood.

TECE357-21YB1 (D) Year B First Half**TECE 358 Curriculum Design**

15 Points 0.1250 EFTS

This course covers principles of learning and assessment in a sociocultural framework. It will build student understanding in relation to documentation for learning, planning and implementation in a pedagogy of play. Students will apply documentation for learning, analyse the learning and facilitate curriculum experiences for infants, toddlers and young children. They will critically reflect on their role in relation to assessment and planning. The course will provide opportunities for students to critically reflect on assessment policy and practice in New Zealand early childhood settings.

P: TECE 364

TECE358-21S2 (C) Semester 2**TECE358-21S2 (D) Semester 2****TECE 359 Te Reo me nga Tikanga Māori**

15 Points 0.1250 EFTS

This course will develop students' competence in oral and written te reo Māori, their understanding of Māori concepts and tikanga Māori as a foundation for working in early childhood and an understanding of second language acquisition approaches in order that they can apply these appropriately in an early childhood context.

TECE359-21YB (C) Full Year B**TECE359-21YB (D) Full Year B****TECE 361 Holistic development, learning and culture**

15 Points 0.1250 EFTS

This course provides the opportunity for students to make sense of their image of the child and to apply this to their practice. Students will debate the differences between a range of indigenous and western paradigms of learning and development. This will allow students to develop their own position in relation to decision making alongside current policy and practice.

TECE361-21YB (C) Full Year B**TECE361-21YB (D) Full Year B****TECE 362 Curriculum for infants and toddlers**

15 Points 0.1250 EFTS

This course introduces and explores a variety of early childhood educational contexts, philosophies and approaches. These will inform students as they work alongside family and whānau to provide teaching and learning experiences for infants and toddlers.

TECE362-21YB1 (C) Year B First Half**TECE362-21YB1 (D) Year B First Half****TECE 364 Pedagogy of Play**

15 Points 0.1250 EFTS

This course provides students with the knowledge of the central roles of relationships and play in children's learning. The course will give an introduction to current theoretical debates related to early childhood curricula. Through the course students will develop their knowledge and understanding of early childhood curriculum document(s) in the context of Aotearoa New Zealand and apply this to their practice. The course aims to bring students to an understanding of how a range of domains can be brought together through a holistic and integrated approach to create meaningful learning experiences for all children.

TECE364-21YB1 (C) Year B First Half**TECE364-21YB1 (D) Year B First Half****TECE 365 The Intentional Teacher**

15 Points 0.1250 EFTS

This course will examine the concept of intentional teaching with a particular focus on social justice in the Aotearoa New Zealand bicultural context. Students will consider the ways in which deliberate, thoughtful pedagogy contributes to children's collaborative learning. Students' confidence in negotiating and co-constructing curriculum with children will be developed.

P: TECE 364

R: TECE 356

TECE365-21S2 (C) Semester 2**TECE365-21S2 (D) Semester 2****TECM 101 Te Reo me ngā Āhuetanga Māori 1**

15 Points 0.1250 EFTS

This course provides current and aspiring early-childhood and primary teachers an introduction to te reo Māori me ona tikanga appropriate for use in learning contexts and educational settings.

TECM101-21SU1 (D) Summer (Jan 21)**TECM101-21YC1 (C) Year C First Half****TECM101-21YC1 (D) Year C First Half****TECM 201 Te Reo me ngā Āhuetanga Māori 2**

15 Points 0.1250 EFTS

This course builds upon your growing competence and confidence in becoming an ethical bicultural teacher in Aotearoa New Zealand. Te Tiriti o Waitangi plays a significant role within the teaching profession; this course provides akonga with opportunities to navigate the relationships of our country's founding document, Tangata Whenuatanga pedagogies and their relevance to Early Childhood Education and Primary teaching contexts. The continual strengthening of te reo Māori applications and Tikanga Māori articulations are essential features of this course; these provide robust foundations towards implementing bicultural curricula for the early childhood and primary sectors. Ways of doing or Tikanga Whakaako in language learning allows akonga to reflect on their own language acquisition strategies and make relevant associations to key theories and/or principles of Second Language (L2) Acquisition.

P: TECM 101

R: TEPI 220 and TEPI 221

TECM201-21YC1 (C) Year C First Half**TECM201-21YC1 (D) Year C First Half****TECM 301 Te Reo me ngā Āhuetanga Māori 3**

15 Points 0.1250 EFTS

To enact Te Tiriti o Waitangi as a living and relevant doctrine the teaching profession need to step up their capacity. Kaiako need to be equipped with a Te Tiriti o Waitangi skill set that they can articulate, apply, plan for, evaluate and modify comfortably and confidently. Key areas of interest for this course will support kaiako to: 1. Critique issues of power, pedagogy and policy implications for the advancement of: -te reo Māori, so that it not only survives but thrives; -tikanga Māori direct application of theory to practice; and -Māori education positive outcomes for the teaching profession Te reo Māori is the terralingua of Aotearoa New Zealand this course supports the continual advancement of te reo Māori competence and language planning. Language portrays a culture and culture that portrays a language this is a core principle of language acquisition and one that is needed to articulate why we do what we do in relation to Tikanga Māori. Tikanga Māori applications will be critically analyzed across a range of curriculum areas within the ECE setting.

P: TECM 201

R: EDM1 363, TECE 301

TECM301-21YC1 (C) Year C First Half**TECM301-21YC1 (D) Year C First Half****TECP 112 Theoretical Foundations of Literacy**

15 Points 0.1250 EFTS

This is a 100 level compulsory BtchLn (Primary) course which focuses on the assessment and facilitation of foundational skills for literacy success (oral language, phonological awareness and letter-sound knowledge) within the New Zealand classroom. Students will learn to apply their knowledge of these skills to the assessment and teaching of reading and writing. The course links the New Zealand Curriculum (2007), theoretical underpinnings and research base to the oral and written language assessment and teaching strategies explored. The knowledge and use of writing conventions within a professional context are also explored.

TECP112-21YC1 (C) Year C First Half**TECP112-21YC1 (D) Year C First Half****TECP 113 The Arts in the NZ Curriculum**

15 Points 0.1250 EFTS

This course provides pre-service teachers with an introduction to the theory, and pedagogy of teaching Music, Visual Arts, and Dance and Drama in the New Zealand primary school context. The course develops the knowledge, skills and attitudes needed to successfully plan, teach and evaluate the Arts learning areas in the New Zealand Curriculum (2007). The course also aims to prepare students for further study in higher-level course and will complement learning in other courses in the Bachelor of Teaching and Learning, including Professional Practice.

TECP113-21YC2 (C)	Year C Second Half
TECP113-21YC2 (D)	Year C Second Half

TECP 122 Introduction to Mathematics Education

15 Points 0.1250 EFTS

This course provides pre-service teachers with an introduction to theories and pedagogies for teaching Mathematics in the New Zealand primary school context. The course introduces knowledge, skills and attitudes needed to successfully plan, teach and evaluate the Mathematics and statistics learning areas of the New Zealand Curriculum (2007). The course also aims to prepare students for further study in higher-level courses and will complement learning in other courses in the Bachelor of Teaching and Learning, including Professional Practice.

TECP122-21YC2 (C)	Year C Second Half
TECP122-21YC2 (D)	Year C Second Half

TECP 202 Language, Social and Cultural Studies

15 Points 0.1250 EFTS

This course introduces contemporary thinking related to cultural studies, language teaching and learning, and social science education in the revised New Zealand Curriculum (2007). The course develops the knowledge, confidence, skills, attitudes and dispositions needed to successfully plan, teach and evaluate programmes in Learning Languages, Social Sciences and ESOL, and provides a theoretical and practical framework for responsive teaching that takes account of the diverse backgrounds of children in New Zealand primary school community contexts. Students will be introduced to resources, pedagogical strategies and approaches appropriate to teaching Social Sciences and Languages (including English as a Second Language, NZSL, te reo Māori and other languages). The course will complement learning in other courses in the Bachelor of Teaching and Learning, including Professional Practice.

TECP202-21YC1 (C)	Year C First Half
TECP202-21YC1 (D)	Year C First Half

TECP 212 Effective Classroom Practices in Literacy and Mathematics

15 Points 0.1250 EFTS

This compulsory course provides pre-service teachers with consolidation and further development of the theory and pedagogy of literacy and mathematics education. The course develops the knowledge, skills and attitudes needed to successfully plan, teach and evaluate the English and Mathematics & Statistics learning areas in the New Zealand Curriculum (2007). This course develops an understanding of how to identify all children's literacy needs (with a focus on reading and written language) and builds on understandings of mathematics and statistics developed in a 100 level course. This includes the processes/procedures for planning and implementing effective programmes to meet diverse needs. There is a focus on the Number and Algebra strand with particular emphasis on Levels 3 and 4. The course also aims to prepare students for further study in higher-level courses and will complement learning in other courses in the Bachelor of Teaching and Learning, including Professional Practice.

P: TECP 112 and TECP 122.

R: TECP 220, TECP 210

TECP212-21S2 (C)	Semester 2
TECP212-21S2 (D)	Semester 2

TECP 222 Health and Physical Education Curriculum

15 Points 0.1250 EFTS

This course provides pre-service teachers with an introduction to the theory, and pedagogy of teaching Health and Physical Education in the New Zealand primary school context. The course develops the knowledge, skills and attitudes needed to successfully plan, teach and evaluate the Health and Physical Education learning area in the New Zealand Curriculum (2007). The course also aims to prepare students for further study in higher-level course and will complement learning in other courses in the Bachelor of Teaching and Learning (Primary) including Professional Practice.

TECP222-21S2 (C)	Semester 2
TECP222-21S2 (D)	Semester 2

TECP 223 Science and Technology Education: Nature and Practice

15 Points 0.1250 EFTS

This is a compulsory course that will introduce students to Science and Technology Education: Nature and Practice. Science and Technology are two of the eight essential learning areas of the New Zealand Curriculum (2007). This course will be structured using the PTTER framework (Techlink 2010). Students will develop understandings of the philosophy (What is Science and Technology?), rationale (Why teach them?), curriculum content (What is their place in the New Zealand curriculum?) and implementation (How are they taught?) in the classroom (<http://www.techlink.org.nz/PTTER-framework/index.htm>). The course also aims to prepare students for further study in higher-level course and will complement learning in other courses in the Bachelor of Teaching and Learning (Primary) including Professional Practice.

TECP223-21YC1 (C)	Year C First Half
TECP223-21YC1 (D)	Year C First Half

TECP 313 Literacy and Mathematics Education for All

15 Points 0.1250 EFTS

This course provides pre-service teachers with a final compulsory opportunity to extend their learning about the theory, and pedagogy of literacy and mathematics education in the New Zealand primary school context. The course extends previous knowledge about planning, teaching and evaluating programmes for the literacy and mathematics classroom. The English

and Mathematics and Statistics learning areas of the New Zealand Curriculum (2007) are studied in congruence with available resources, assessment tools and planning formats to meet the needs of all diverse learners in the New Zealand primary school setting. The course will complement learning in other courses in the Bachelor of Teaching and Learning, including Professional Practice.

P: TECP 212

R: TECP 310

EQ: TECP 310

TECP313-21YC1 (C)	Year C First Half
TECP313-21YC1 (D)	Year C First Half

TECP 315 Language, Culture and Identity: Enhancing Educational Experiences and Outcomes for Diverse Learners

15 Points 0.1250 EFTS

This course develops pre-service teachers' cultural self-efficacy and extends their abilities to recognise and address key issues for learners from diverse cultural and linguistic backgrounds. The content includes effective pedagogies for culturally diverse learners, establishing learning partnerships, first language development, and meeting the needs of students learning English as an additional language in mainstream classrooms and early childhood settings. The course extends the knowledge, skills and dispositions developed in other courses in the BTChLn, including Professional Practice. This course also provides scaffolding for entry into the Postgraduate Diploma in Education (endorsed in Teaching and Learning Languages) offered at the University of Canterbury. The course will complement learning in other courses in the Bachelor of Teaching and Learning, including Professional Practice.

P: Students must have completed a minimum of 90 credits from the Year 2 BTChLn(Primary) or BTChLn(Early Childhood) Schedule including all Year 2 Professional Practice and Professional Inquiry courses.

TECP315-21S2 (C)	Semester 2
TECP315-21S2 (D)	Semester 2

TECP 316 Te Ao Māori/ Mātauranga Māori: Teaching and Learning from Māori Worldviews

15 Points 0.1250 EFTS

The course is designed to give pre-service teachers the opportunity to improve and extend their te reo Māori proficiency by examining emerging and current practices related to teaching and researching te reo and using on-line technology as a support tool. The course aims to develop a rigorous approach to the theory/praxis nexus in relation to teaching te reo Māori; to promote an understanding of the role of research in contributing to improved practice and innovation; and to equip graduates with the skills to design and implement research based practices in the teaching of te reo and tikanga Māori.

P: Students must have completed a minimum of 90 credits from the Year 2 Schedule including both Year 2 Professional Practice and Professional Inquiry courses and TECM 101.

TECP316-21S2 (C)	Semester 2
TECP316-21S2 (D)	Semester 2

TECP 317 e-Learning for Transformative Education

15 Points 0.1250 EFTS

This course provides opportunities for students from the BTChLn (Primary) and BTChLn (Early Childhood) who have an interest in digital technologies and e-learning to develop the knowledge, skills and attitudes that will enable them to adopt leadership roles in this area in the future. The course extends the digital technologies learning included in other courses in the Bachelor of Teaching and Learning, including Professional Practice. This course also provides scaffolding for entry into Postgraduate qualifications (endorsed in e-Learning and Digital Technologies) offered at the university.

P: Students must have completed a minimum of 90 credits from the Year 2 Schedule including both Year 2 Professional Practice and Professional Inquiry courses.

TECP317-21S2 (D)	Semester 2
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TECP 318 Research and Inquiry in Action

15 Points 0.1250 EFTS

The course is requires the students to integrate and consolidate the knowledge from their programme of study while also deepening and extending their professional knowledge and skills in one area of interest. In this 300 level optional course students will undertake an Inquiry based research project. They will be expected to work within the education community to identify and investigate an education related issue or topic of interest. Students will experience authentic research through Inquiry where they will share ideas, record links to theory and to best classroom & centre practice. It will also continue to contribute to the development of students' teaching philosophies. Using an Inquiry based approach to research and issue or topic students will be introduced to education research and Inquiry Learning. There is also opportunity for a limited number of students to conduct a more direct personal inquiry involving special projects such as: A comparative investigation during a visit to the UC College of Education's sister institution, Sonoda Women's University, Amagasaki, Japan. Students taking this option are eligible to apply for a scholarship administered by Hyogo University Mobility in Asia and the Pacific (HUMAP)

P: Students must have completed a minimum of 90 credits from the Year 2 Schedule including both Year 2 Professional Practice and Professional Inquiry courses

TECP318-21S2 (C)	Semester 2
TECP318-21S2 (D)	Semester 2

TECP 319 Sustainability and Social Justice

15 Points 0.1250 EFTS

This course recognises the importance of all citizens having the necessary skills, knowledge and dispositions to contribute to sustainable communities. An important role for teachers is to create partnerships within learning communities that support leadership, education and care, which enables children and their families/whānau to participate in New Zealand society in ecologically sustainable ways.

P: Students must have completed a minimum of 90 credits from the Year 2 Schedule including both Year 2 Professional Practice and Professional Inquiry courses

TECP319-21S2 (C) Semester 2

TECP319-21S2 (D) Semester 2

TECP 323 Literacy and Mathematics for Primary School Teaching

15 Points 0.1250 EFTS

This course provides an introduction to teaching literacy and mathematics from year 0 to 8. There is a specific emphasis on teaching beginning literacy and number in mathematics. The course builds students own pedagogical content knowledge and the use of evidence-based pedagogical approaches in the classroom.

R: TECP 423

TECP323-21X (D) 25 Jan 2021 - 14 Nov 2021

TECP323-21YA (C) Full Year A

TECP 324 Curriculum 2: Teaching and Learning in, through and about health and physical education and the arts

15 Points 0.1250 EFTS

This course explores content, pedagogy and practices associated with teaching and learning in, through and about PE, Health and The Arts in the New Zealand Curriculum (2007). Students will engage with content that will support the design of effective, inclusive classroom programmes and environments that maximise learners' physical, social, cultural and emotional safety and promote well-being in Primary and Intermediate school settings. The course will complement learning in other courses in the Graduate Diploma of Teaching and Learning.

R: TECP 424

TECP324-21X (D) 25 Jan 2021 - 14 Nov 2021

TECP324-21YA (C) Full Year A

TECP 325 Curriculum 3: Exploring Science and Technology through Collaborative Design

15 Points 0.1250 EFTS

This course supports pre-service teacher development of curriculum knowledge and pedagogy of teaching Science and Technology in schools in Aotearoa/ New Zealand. Using future-focussed themes and issues that integrate Science and Technology, pre-service teachers explore the Nature of Science and Technology through engagement in authentic contexts. Through the acquisition of knowledge, skills and attitudes, pre-service teachers will be better informed to successfully plan, resource, implement, assess and evaluate these learning areas. The course will complement learning in other courses in the Graduate Diploma of Teaching and Learning (Primary), including Professional Practice.

R: TECP 425

TECP325-21X (D) 25 Jan 2021 - 20 June 2021

TECP325-21YA1 (C) Year A First Half

TECP 326 Curriculum 4: Learning Languages and Social Sciences in Diverse School and Community Settings

15 Points 0.1250 EFTS

This course introduces pre-service teachers to contemporary thinking related to Learning Languages and Social Sciences education in primary schools in Aotearoa/New Zealand. Students will engage with theoretical and practical frameworks for responsive teaching in Social Sciences and Learning Languages (including English as an additional language, New Zealand Sign Language, te reo Māori and other languages) that take account of learners' diverse backgrounds and draw on local contexts. Students will examine pedagogical strategies, assessment activities and resources to support their development of the knowledge, skills, and dispositions to facilitate effective learning opportunities in these two learning areas. The course will complement learning in other courses in the Graduate Diploma of Teaching and Learning (Primary), including Professional Practice.

R: TECP 426

TECP326-21YA2 (D) Year A Second Half

TECP326-21YA2 (C) Year A Second Half

TECP 331 English Literacy and Mathematics Education 1

15 Points 0.1250 EFTS

The course provides pre-service teachers with an introduction to English and Mathematics Education, key Learning Areas of the New Zealand Curriculum (2007). The development of literacy and numeracy skills is essential as a basis for all subject knowledge and teachers must have the knowledge and skills to design effective learning experiences in these areas. They must be able to critically evaluate current English literacy and Mathematics practice across all levels of primary education. Every teacher requires the skills and knowledge to make it possible for children to understand, clarify, problem solve, test hypotheses and communicate in appropriate ways. The course will complement learning in other courses in the Graduate Diploma of Teaching and Learning (Primary), including Professional Practice.

P: Admission to the GradDipTchLn(Primary)

TECP331-21X (D) 01 Feb 2021 - 27 June 2021

TECP 332 English Literacy and Mathematics Education 2

15 Points 0.1250 EFTS

This course continues to focus on the development of literacy and numeracy skills with an emphasis on more specific assessment (including nationally developed monitoring tools), evaluation and planning. Topics such as meeting the needs of diverse learners, engaging students with texts, critical literacies, effective mathematical pedagogies and the New Zealand Number Framework will be explored in greater depth. Following professional experiences in schools, students will be encouraged to reflect on their own classroom practice and that of others. The course will complement learning in other courses in the Graduate Diploma of Teaching and Learning (Primary), including Professional Practice.

P: TECP 331

R: TECP 360, TECP 370

TECP332-21YC2 (D) Year C Second Half

TECP 333 Future Focussed Education: Science, Technology, Digital Literacy

15 Points 0.1250 EFTS

This course for pre-service teachers is designed to develop a rationale, philosophy and pedagogy of teaching Science, Technology and Digital Literacy/citizenship in the New Zealand. Through the acquisition of knowledge, skills and attitudes pre-service teachers will be better informed to successfully plan, resource, implement, assess and evaluate these learning areas. Future-focussed themes and issues that integrate digital literacy, technologies and citizenship, are used to explore the Nature of Science and Technology through engagement in authentic contexts. The course will complement learning in other courses in the Graduate Diploma of Teaching and Learning (Primary), including Professional Practice.

P: Admission to the GradDipTchLn(Primary)

TECP333-21X (D) 01 Feb 2021 - 27 June 2021

TECP 334 Community-Based Approaches in Education: Health, Physical Education and Social Sciences

15 Points 0.1250 EFTS

This course provides pre-service teachers with an introduction to the conceptual and structural frameworks in the New Zealand Curriculum (2007) in the Health, Physical Education and Social Sciences Learning Areas with a particular emphasis placed on well-informed practical application. A community based emphasis provides participants with a local context to explore key concepts and issues in authentic community settings. Course content will demonstrate the College's commitment to upholding Te Tiriti o Waitangi and Te reo me nga tikanga Māori and the Ministry of Education's Pasifika Education Strategy. The course will complement learning in other courses in the Graduate Diploma of Teaching and Learning (Primary)

P: Admission to the GradDipTchLn(Primary)

TECP334-21YC2 (D) Year C Second Half

TECP 335 Creative Action and Response in Education: The Arts

15 Points 0.1250 EFTS

This course provides pre-service teachers with an introduction to the theory and practice of fostering creative action and response in education within the context of teaching the New Zealand Curriculum learning area 'The Arts' in primary and intermediate schools. Each of the four arts disciplines (i.e. Music-Sound Arts, Visual Arts, Dance and Drama) will be critically examined in terms of pedagogical and subject content knowledge, and current research related to the development of creativity within an Arts education context explored, to enable participants to design and implement relevant, research-informed, culturally inclusive Arts programmes in schools. The course will complement learning in other courses in the Graduate Diploma of Teaching and Learning (Primary), including Professional Practice.

P: Admission to the GradDipTchLn(Primary)

TECP335-21YC2 (D) Year C Second Half

TECP 423 Literacy and Mathematics for Primary School Teaching

15 Points 0.1250 EFTS

This course provides an introduction to teaching literacy and mathematics from year 0 to 8. There is a specific emphasis on teaching beginning literacy and number in mathematics. The course builds students own pedagogical content knowledge and the use of evidence-based pedagogical approaches in the classroom.

R: TECP 323

TECP423-21X (D) 25 Jan 2021 - 14 Nov 2021

TECP423-21YA (C) Full Year A

TECP 424 Curriculum 2: Teaching and Learning In, Through and About Health and Physical Education and The Arts

15 Points 0.1250 EFTS

This course explores content, pedagogy and practices associated with teaching and learning in, through and about PE, Health and The Arts in the New Zealand Curriculum (2007). Students will critically engage with content that will support the design of effective, inclusive classroom programmes and environments that maximise learners' physical, social, cultural and emotional safety and well-being in Primary and Intermediate school settings. The course will complement learning in other courses in the Postgraduate Diploma of Teaching and Learning.

R: TECP 324

TECP424-21X (D) 25 Jan 2021 - 14 Nov 2021

TECP424-21YA (C) Full Year A

TECP 425 Curriculum 3: Exploring Science and Technology through Collaborative Design

15 Points 0.1250 EFTS

This course supports pre-service teacher development of curriculum knowledge and pedagogy of teaching Science and Technology in schools in Aotearoa/ New Zealand. Using research, future-focussed themes and issues that integrate Science and Technology, pre-service teachers critically examine and explore the Nature of Science and Technology through engagement in authentic contexts. Through the acquisition of knowledge, skills and attitudes, pre-service teachers will be better informed to successfully plan, resource, implement, assess and evaluate these learning areas. The course will complement learning in other courses in the Postgraduate Diploma of Teaching and Learning (Primary), including Professional Practice.

R: TECP 325

TECP425-21X (D) 25 Jan 2021 - 20 June 2021

TECP425-21YA1 (C) Year A First Half

TECP 426 Curriculum 4: Learning Languages and Social Sciences in Diverse School and Community Settings

15 Points 0.1250 EFTS

This course introduces pre-service teachers to contemporary thinking related to Learning Languages and Social Sciences education in primary schools in Aotearoa/New Zealand. Students will critically engage with theoretical and practical frameworks for responsive teaching in Social Sciences and Learning Languages (including English as an additional language, New Zealand Sign Language, te reo Māori and other languages) that take account of learners' diverse backgrounds and draw on local contexts. Students will evaluate pedagogical strategies, assessment activities and resources to deepen their development of the knowledge, skills, and dispositions to facilitate effective learning opportunities in these two learning areas. The course will complement learning in other courses in the Postgraduate Diploma of Teaching and Learning (Primary), including Professional Practice.

R: TECP 326

TECP426-21YA2 (C) Year A Second Half

TECP426-21YA2 (D) Year A Second Half

TECS 333 Curriculum, Pedagogy and Assessment 1: Teaching subject for junior secondary

15 Points 0.1250 EFTS

This course introduces students to curriculum, pedagogy and assessment and supports the development of pedagogical content knowledge for secondary teaching in particular subject contexts at junior secondary level. Students examine the New Zealand Curriculum (NZC), associated curriculum and assessment support materials, contemporary pedagogical developments and associated practice challenges, within the context of a junior secondary subject. There is a particular focus on knowledge foundations of subjects, culturally responsive and sustaining pedagogies that support learning for all, relevant subject-specific literacies, and design for learning within students' junior secondary subjects.

R: TECS 433

TECS333-21YA1 (C) Year A First Half

TECS 334 Curriculum, Pedagogy and Assessment 2: Teaching subject for senior secondary

15 Points 0.1250 EFTS

This course will deepen students understanding of curriculum, pedagogy and assessment as they develop pedagogical content knowledge for secondary teaching in particular subject contexts at senior secondary level. Students will examine curriculum and assessment frameworks and materials, including the New Zealand Curriculum (NZC) and the New Zealand Certificate of Educational Achievement (NCEA), contemporary pedagogical developments and associated practice challenges within the context of a specialist senior secondary subject. There is a particular focus on knowledge foundations, assessment practices, culturally responsive and sustaining pedagogies that support learning for all, relevant subject-specific literacies and design for learning within students' specialist senior secondary subjects

P: TECS 333

R: TECS 434

TECS334-21YA2 (C) Year A Second Half

TECS 335 Curriculum, Pedagogy and Assessment 3: Contemporary Developments in Secondary Education

15 Points 0.1250 EFTS

This course provides a foundation for understanding curriculum, pedagogy and assessment for secondary teaching in complex and shifting secondary schooling environments. Students examine curriculum and assessment frameworks, including the New Zealand Curriculum (NZC) and the National Certificate of Educational Achievement (NCEA), different schooling contexts, contemporary pedagogical developments and associated practice challenges. They engage with questions about knowledge and whose knowledge counts in secondary education. There is a particular focus on integrated curriculum, pedagogies that support learning across subjects, assessment for learning, culturally responsive and sustaining pedagogy, literacies across the curriculum, future-focused and personalised learning, and integrated design for learning. Students collaborate with peers to explore integrated teaching and learning opportunities.

R: TECS 435

TECS335-21YA (C) Full Year A

TECS 336 Curriculum, Pedagogy and Assessment 4: Additional teaching subject for junior secondary

15 Points 0.1250 EFTS

This course is for students who wish to develop understanding of teaching and learning in relation to an additional junior secondary teaching subject. Students are introduced to curriculum, pedagogy and assessment in their additional junior secondary subject and develop pedagogical content knowledge to support teaching and learning in that subject. They examine the New Zealand Curriculum (NZC), associated curriculum and assessment support materials, contemporary pedagogical developments and associated practice challenges in relation to their additional junior secondary subject. There is a particular focus on knowledge foundations, culturally responsive and sustaining pedagogies that support learning for all, relevant subject-specific literacies, and design for learning within subject context.

R: TECS 436

TECS336-21YA1 (C) Year A First Half

TECS 337 Curriculum, Pedagogy and Assessment 5: Additional teaching subject for senior secondary

15 Points 0.1250 EFTS

This course is for students who wish to develop understanding of teaching and learning in relation to an additional senior secondary teaching subject. Students gain understanding of curriculum, pedagogy and assessment and they develop pedagogical content knowledge for secondary teaching in relation to their additional senior secondary subject. They examine curriculum and assessment frameworks and materials, including the New Zealand Curriculum (NZC) and New Zealand Certificate of Educational Achievement (NCEA), contemporary pedagogical developments and associated practice challenges within the context of their additional senior secondary subject. There is a particular focus on knowledge foundations, assessment practices, culturally responsive and sustaining pedagogies that support learning for all, relevant subject-specific literacies and design for learning within subject context.

R: TECS 437

TECS337-21YA2 (C) Year A Second Half

TECS 395 Specialist Curriculum Studies Years 7-13

30 Points 0.2500 EFTS

In this course, student will engage with documentation, practices and research relating to their specialist teaching area in secondary schools. Specialist Curriculum Studies links directly to designing teaching for the learning areas of the New Zealand curriculum and to school programmes in New Zealand secondary schools. This course focuses on critical analysis of curriculum documents; application of the principles of assessment and evaluation to the specific learning area; planning and management of the learning environment; developing teaching sequences to meet the needs of diverse students in alignment with curriculum statements; and developing curriculum resources and assessment practices for NCEA requirements, in a specialist learning area.

TECS395-21YB (C) Full Year B

TECS 396 Additional Curriculum Subject Years 7-10 (1)

15 Points 0.1250 EFTS

Additional Curriculum Studies enable students to broaden their teaching expertise to include an additional learning area of the New Zealand Curriculum. Additional Curriculum Studies links directly to designing teaching for the learning areas of the New Zealand curriculum and to school programmes in New Zealand secondary schools. This course focuses on critical analysis of curriculum documents; application of the principles of assessment and evaluation to the specific learning area; planning and management of the learning environment; developing teaching sequences to meet the needs of diverse students in alignment with curriculum statements; and developing curriculum resources and assessment practices for Yrs 7-10 in an additional special learning area. Pre-service teachers will develop pedagogical and assessment practices and apply them to designing learning for diverse students in a particular learning area. They will develop skills to plan, evaluate and refine teaching and learning sequences, focusing on learners in Years 7 to 10.

TECS396-21YB1 (C) Year B First Half

TECS 397 Additional Curriculum Subject Years 11-13

15 Points 0.1250 EFTS

Additional Curriculum Studies enable students to broaden their teaching expertise to include an additional learning area of the New Zealand Curriculum. Additional Curriculum Studies links directly to designing teaching for the learning areas of the New Zealand curriculum and to school programmes in New Zealand secondary schools. This course focuses on critical analysis of curriculum documents; application of the principles of assessment and evaluation to the specific learning area; planning and management of the learning environment; developing teaching sequences to meet the needs of diverse students in alignment with curriculum statements; and developing curriculum resources and assessment practices for Yrs 11-13 in an additional special learning area. Pre-service teachers will develop pedagogical and assessment practices and apply them to designing learning for diverse students in a particular learning area. They will develop skills to plan, evaluate and refine teaching and learning sequences, focusing on learners in Years 11-13 as it applies to NCEA.

TECS397-21S2 (C) Semester 2

TECS 398 Additional Curriculum Subject Years 7-10 (2)

15 Points 0.1250 EFTS

Additional Curriculum Studies enable students to broaden their teaching expertise to include an additional learning area of the New Zealand Curriculum. Additional Curriculum Studies links directly to designing teaching for the learning areas of the New Zealand curriculum and to school programmes in New Zealand secondary schools. This course focuses on critical analysis

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of curriculum documents; application of the principles of assessment and evaluation to the specific learning area; planning and management of the learning environment; developing teaching sequences to meet the needs of diverse students in alignment with curriculum statements; and developing curriculum resources and assessment practices for Yrs 7-10 in an additional special learning area. Pre-service teachers will develop pedagogical and assessment practices and apply them to designing learning for diverse students in a particular learning area. They will develop skills to plan, evaluate and refine teaching and learning sequences, focusing on learners in Years 7 to 10.

TECS398-21YB1 (C) **Year B First Half**

TECS 433 Curriculum, Pedagogy and Assessment 1: Teaching subject for junior secondary

15 Points 0.1250 EFTS

This course introduces students to curriculum, pedagogy and assessment and supports the development of pedagogical content knowledge for secondary teaching in particular subject contexts at junior secondary level. Students examine the New Zealand Curriculum (NZC), associated curriculum and assessment support materials, contemporary pedagogical developments and associated practice challenges, within the context of a junior secondary subject. There is a particular focus on knowledge foundations of subjects, culturally responsive and sustaining pedagogies that support learning for all, relevant subject-specific literacies, and design for learning within students' junior secondary subjects.

R: TECS 333

TECS433-21YA1 (C) **Year A First Half**

TECS 434 Curriculum, Pedagogy and Assessment 2: Teaching subject for senior secondary

15 Points 0.1250 EFTS

This course will deepen students understanding of curriculum, pedagogy and assessment as they develop pedagogical content knowledge for secondary teaching in particular subject contexts at senior secondary level. Students will examine curriculum and assessment frameworks and materials, including the New Zealand Curriculum (NZC) and the New Zealand Certificate of Educational Achievement (NCEA), contemporary pedagogical developments and associated practice challenges within the context of a specialist senior secondary subject. There is a particular focus on knowledge foundations, assessment practices, culturally responsive and sustaining pedagogies that support learning for all, relevant subject-specific literacies and design for learning within students' specialist senior secondary subjects.

P: TECS 433

R: TECS 334

TECS434-21YA2 (C) **Year A Second Half**

TECS 435 Curriculum, Pedagogy and Assessment 3: Contemporary Developments in Secondary Education

15 Points 0.1250 EFTS

This course provides a foundation for critical engagement with curriculum, pedagogy and assessment issues for secondary teaching in complex and shifting secondary schooling environments. Students examine curriculum and assessment frameworks, including the New Zealand Curriculum (NZC) and the National Certificate of Educational Achievement (NCEA), different schooling contexts, contemporary pedagogical developments and associated practice challenges. They engage with questions about knowledge and whose knowledge counts in secondary education. There is a particular focus on integrated curriculum, pedagogies that support learning across subjects, assessment for learning, culturally responsive and sustaining pedagogy, literacies across the curriculum, future-focused and personalised learning, and integrated design for learning. Students collaborate with peers to explore integrated teaching and learning opportunities.

R: TECS 335

TECS435-21YA (C) **Full Year A**

TECS 436 Curriculum, Pedagogy and Assessment 4: Additional teaching subject for junior secondary

15 Points 0.1250 EFTS

This course is for students who wish to develop understanding of teaching and learning in relation to an additional junior secondary teaching subject. Students are introduced to curriculum, pedagogy and assessment in their additional junior secondary subject and develop pedagogical content knowledge to support teaching and learning in that subject. They critically examine the New Zealand Curriculum (NZC), associated curriculum and assessment support materials, contemporary pedagogical developments and associated practice challenges in relation to their additional junior secondary subject. There is a particular focus on knowledge foundations, culturally responsive and sustaining pedagogies that support learning for all, relevant subject-specific literacies, and design for learning within subject context.

R: TECS 336

TECS436-21YA1 (C) **Year A First Half**

TECS 437 Curriculum, Pedagogy and Assessment 5: Additional teaching subject for senior secondary

15 Points 0.1250 EFTS

This course is for students who wish to develop understanding of teaching and learning in relation to an additional senior secondary teaching subject. Students gain understanding of curriculum, pedagogy and assessment and they develop pedagogical content knowledge for secondary teaching in relation to their additional senior secondary subject. They critically examine curriculum and assessment frameworks and materials, including the New Zealand Curriculum (NZC) and New Zealand Certificate of Educational Achievement (NCEA), contemporary pedagogical developments and associated practice challenges within the

context of their additional senior secondary subject. There is a particular focus on knowledge foundations, assessment practices, culturally responsive and sustaining pedagogies that support learning for all, relevant subject-specific literacies and design for learning within subject context.

R: TECS 337

TECS437-21YA2 (C) **Year A Second Half**

TEDU 105 Cultural Studies/Te Tirohanga Ahurea

15 Points 0.1250 EFTS

This compulsory course will begin to prepare initial teacher education early childhood students to become competent bicultural and intercultural teachers of Aotearoa New Zealand.

TEDU105-21YC2 (C) **Year C Second Half**

TEDU105-21YC2 (D) **Year C Second Half**

TEDU 110 Child and Adolescent Development

15 Points 0.1250 EFTS

This course establishes a foundation in theory, concepts, processes and factual knowledge of infant, child, and adolescent development within the context of family, school, and community. Students will acquire an understanding of the developmental processes that take place within and across physical, cognitive, emotional, and social domains, and their associations with developmental outcomes.

R: EDUC 102, EDUC 152, TEDU 150, TEDU 102

EQ: EDUC 102

TEDU110-21S1 (C) **Semester 1**

TEDU110-21S1 (D) **Semester 1**

TEDU 111 Education, Culture and Society

15 Points 0.1250 EFTS

This course provides an introduction to foundational theories, concepts and processes in the study of education. The course explores theories about power, justice and fairness in society, with a particular focus on how they relate to education. It also examines what part factors such as class, genders and sexualities, disability, and race may play in maintaining unequal forms of education. An important feature of the course will be analysing the role played by education in the development of colonial relations between Māori and Pakeha, and how that continues to shape contemporary New Zealand society.

R: EDUC 103, EDUC 156

EQ: EDUC 103

TEDU111-21S2 (C) **Semester 2**

TEDU111-21S2 (D) **Semester 2**

TEDU 201 Teaching, Learning and Assessment

15 Points 0.1250 EFTS

This course develops knowledge about learning and assessment and the relationships between learning, teaching and assessment in school and early childhood education contexts. It gives initial teacher education students opportunities to develop knowledge for teaching and learning by examining what is known about the conditions for learning and emerging issues regarding the role of assessment in learning.

TEDU201-21YC1 (C) **Year C First Half**

TEDU201-21YC1 (D) **Year C First Half**

TEDU 206 Inclusive Education in Early Childhood/Te Aotūroa Tātaki

15 Points 0.1250 EFTS

The course is designed to provide initial early childhood teacher education students with knowledge of inclusion and exclusion in early childhood education. The focus will be on knowledge of the cultures, policies and practices that contribute to the inclusion and exclusion of children and their families/whānau in early childhood education. It is important that students develop a critical awareness of the contested pedagogies and theoretical debates around inclusion in early childhood education within the social, historical, cultural and political context in New Zealand. Students will develop their understanding, knowledge and skills to ensure that all children and their families/whānau are included and supported in regular early childhood settings.

TEDU206-21S2 (C) **Semester 2**

TEDU206-21S2 (D) **Semester 2**

TEDU 301 Inclusive and Special Education

15 Points 0.1250 EFTS

This course provides in-depth consideration and analysis of the critical issues, policies and evidence-based practices in the fields of inclusive and special education. Historical and contemporary policy and legislation are examined to determine how these influence both the intended and the operational curriculum. The barriers to effective participation of all children such as teachers' beliefs, values and attitudes and how these influence practice and outcomes for all children in regular early childhood education and primary learning contexts are considered. Students will also explore evidence-based teaching strategies that support the participation and development of children with specific learning needs across these contexts.

TEDU301-21S2 (C) **Semester 2**

TEDU301-21S2 (D) **Semester 2**

TEDU 305 Discovering Early Years Education

15 Points 0.1250 EFTS

This course will examine the histories, policies and research, which have contributed to the current contexts and practices within early years education (including early childhood education and the early school years) in Aotearoa New Zealand, and in international contexts.

TEDU305-21YC1 (C) Year C First Half
TEDU305-21YC1 (D) Year C First Half

TEPI 101 The Profession of Teaching

15 Points 0.1250 EFTS

This course is a 100 level, compulsory, foundation course for the BTChLn (Early Childhood) and BTChLn (Primary). The course is an introduction to what it means to be a teacher in early childhood and primary contexts in New Zealand. It provides student teachers with knowledge of the major threads, conceptual framework and foundation documents that are fundamental to the BTChLn initial teacher education qualification. The course includes a two-day Treaty of Waitangi workshop and a two-week professional practice placement in an early childhood centre or primary school.

TEPI101-21YC1 (C) Year C First Half
TEPI101-21YC1 (D) Year C First Half
TEPI101-21YC1 (N) Year C First Half

TEPI 105 Teacher Identity/Ngā Tirohanga Whānui

15 Points 0.1250 EFTS

This course specifically aims to give students the opportunity to examine their values, attitudes and beliefs in regard to children, childhoods, whānau and early childhood contexts, and to explore how these impact on their understandings of themselves as teachers. This course will support students to articulate aspects of their developing teaching philosophy.

P: TEPI 101

TEPI105-21YC2 (C) Year C Second Half
TEPI105-21YC2 (D) Year C Second Half

TEPI 205 Professional Responsibilities and Relationships/Ngā Tirohanga Whānui

15 Points 0.1250 EFTS

This course will support initial teacher education students to explore their role as a committed member of the teaching profession.

P: TEPI 105

TEPI205-21YC1 (C) Year C First Half
TEPI205-21YC1 (D) Year C First Half

TEPI 206 The Teacher's Role in Numeracy and Literacy/Ngā Tirohanga Whānui

15 Points 0.1250 EFTS

This course will allow the students to examine the role of the early childhood teacher in helping children develop pre-literacy and numeracy skills. Students will become familiar with the requirements of the New Zealand curriculum in relation to numeracy and literacy. They will use the holistic approach of Te Whāriki to ensure that they are able to provide children with the experiences they need as part of their early childhood experience so that they have an excellent foundation in literacy and numeracy with which to begin their formal education. Students will develop an understanding of what children need to know and will develop the skills which will enable them to provide appropriate literacy and numeracy experiences throughout the early childhood programme. Students will also develop skills in presenting information on literacy and numeracy to parents and the ability to assist parents help their own children in these areas.

P: TEPI 205

TEPI206-21S2 (C) Semester 2
TEPI206-21S2 (D) Semester 2

TEPI 222 Professional Inquiry: Designing for Learning

15 Points 0.1250 EFTS

This course will further develop students' understanding and knowledge of how to give effect to the vision of the New Zealand Curriculum and Te Marautanga o Aotearoa. Students will experience, as well as learn about, the dimensions of effective pedagogy and how these dimensions inform the principles and practice of designing and implementing effective learning experiences, including good practice for Māori and Pasifika learners. Students will implement these understandings when undertaking the associated Professional Practice course.

P: TEPP 102

TEPI222-21S2 (C) Semester 2
TEPI222-21S2 (N) Semester 2
TEPI222-21S2 (D) Semester 2

TEPI 230 Informing Teaching and Learning through Community Engagement

15 Points 0.1250 EFTS

This course engages pre-service teachers in relational community-based experiential learning. The course includes relevant multi-disciplinary academic content, and guided reflection to support students' exploration of their role as committed members of the community. There is an expectation of enhanced understandings of intercultural knowledges and professional identity, and the ability to transfer that learning into formal educational settings.

P: TEPI 105 (ECE) or TEPP 102 (Primary)

R: TEPP 205

TEPI230-21YC1 (C) Year C First Half
TEPI230-21YC1 (D) Year C First Half

TEPI 305 The Teacher's Role in Learning and Assessment/Ngā Tirohanga Whānui

15 Points 0.1250 EFTS

This course explores sociocultural assessment theories and related, foregrounding the principles of Te Whāriki and the teacher's role as it relates to current pedagogies in learning. Students will develop the skills and knowledge necessary to provide meaningful formative assessment, which forms the basis for planning for infants, toddlers and young children, including transitions to, within and from early childhood settings.

P: TEPI 206

TEPI305-21YC1 (C) Year C First Half
TEPI305-21YC1 (D) Year C First Half

TEPI 306 The Pedagogical Threads of Teaching/Te Umanga Ako - Tuia!

15 Points 0.1250 EFTS

This course will require students to revisit the 'threads' of the programme as part of ensuring that they are able to articulate a philosophy of teaching and have a clear understanding both of the teacher registration process and their professional responsibilities.

P: TEPI 305

TEPI306-21S2 (C) Semester 2
TEPI306-21S2 (D) Semester 2

TEPI 313 Professional Learning and Inquiry 1

15 Points 0.1250 EFTS

This course supports the development of foundational professional and pedagogical understandings for teaching and learning in schools in Aotearoa New Zealand. Students will engage with the sociocultural context of schooling, Ministry of Education documents, professional frameworks and research that will support the development of positive, inclusive, learning-focussed professional practices and environments in diverse school settings. Students complete a Treaty of Waitangi workshop within the course. The course complements learning in other courses and supports preparation for the first Professional Practice course in the GradDipTchLn primary and secondary endorsements.

R: TEPI 413

TEPI313-21X (D) 25 Jan 2021 - 20 June 2021
TEPI313-21YA1 (C) Year A First Half

TEPI 314 Professional Learning and Inquiry 2

15 Points 0.1250 EFTS

This course builds upon TEPI313 Professional Learning and Inquiry 1 and TEPP313 Professional Practice 1. It provides an opportunity for students to deepen understandings of professional and pedagogical aspects of teaching. Students will engage with contemporary educational issues and practice challenges including pedagogies for diverse learners and learning environments, and digital leadership. There is an emphasis on becoming an inquiring and reflective teacher, using 'teaching as inquiry' and evidence-based approaches to enhance learning. The course will prepare students for the associated Professional Practice course and also complement learning in other courses in the Graduate Diploma of Teaching and Learning.

P: TEPI 313

R: TEPI 614

TEPI314-21YA2 (C) Year A Second Half
TEPI314-21YA2 (D) Year A Second Half

TEPI 315 Understanding Every Learner: Intercultural and Inclusive Education

15 Points 0.1250 EFTS

Every learner is unique. This course will support student teachers to increase their understanding of the variety of unique characteristics that learners bring with them into school and learning settings while also providing them with frameworks for understanding each learner as a whole person. Intercultural understandings will be addressed by challenging ideas of normality; inclusiveness will be addressed through an abilities-based approach and tangata whenuatanga; and behaviour will be viewed as a medium of communication. From a practice perspective, the course will focus on what teachers can do to change and adapt their practices to meet the needs of every learner.

R: TEPI 415

TEPI315-21X (D) 25 Jan 2021 - 14 Nov 2021
TEPI315-21YA (C) Full Year A

TEPI 316 Tō tātou reo, ā tātou tikanga

15 Points 0.1250 EFTS

This course will support student teachers to extend their personal proficiency in te reo Māori through a communicative approach to language learning. Emphasis will be placed on student teachers learning how to use te reo Māori in their planning for teaching and in their everyday school practices as a teacher. It will also assist student teachers to understand their role in the revitalisation process of te reo Māori. Tikanga Māori and tikanga a iwi will be incorporated in this course through place-based pedagogies and socio-cultural understandings of knowledge. The course will draw explicitly from the core competencies of Tataiako (Ministry of Education, 2011) which will be enhanced by including the value of kaitiakitanga.

R: TEPI 416

TEPI316-21X (D) 25 Jan 2021 - 14 Nov 2021

TEPI316-21YA (C) Full Year A

TEPI 320 Professional Inquiry and Te Reo me ngā Āhuatanga Māori 3A
15 Points 0.1250 EFTS

This is a compulsory BTChLn (Primary) course that further aims to develop understanding and knowledge of the profession of teaching. The course has two components. One prepares students to design needs-based learning experiences using an integrated learning approach and to report on the extent to which new learning occurs. The other further develops student's respect for, and advancing competence in, te reo Māori and their ability to reflect on their role as a co-learner and teacher of Te Reo me ngā Āhuatanga Māori.

P: TEPI 222 and TECM 201

TEPI320-21YC1 (C) Year C First Half

TEPI320-21YC1 (D) Year C First Half

TEPI320-21YC1 (N) Year C First Half

TEPI 321 Professional Inquiry and Te Reo me ngā Āhuatanga Māori 3B
15 Points 0.1250 EFTS

This is a compulsory BTChLn (Primary) course that completes pre-service student's understanding and knowledge of the profession of teaching. The course has two components. The first prepares students as they transition from pre-service student to beginning teacher. The second further develops student's respect for, and advancing competence in, te reo Māori and their understanding of education in the Aotearoa/New Zealand context.

P: TEPI 320

TEPI321-21S2 (C) Semester 2

TEPI321-21S2 (N) Semester 2

TEPI321-21S2 (D) Semester 2

TEPI 331 Professional and Educational Studies 1
30 Points 0.2500 EFTS

This course provides pre-service teachers with an introduction to the New Zealand Education System and New Zealand Curriculum (2007). Culturally responsive pedagogies and learning design are explored within the context of learning theory, child development, and evidence-based teaching practices involving school visits, a Treaty of Waitangi workshop and Noho Marae experience. Students critically reflect on their beliefs, understandings and practices to develop greater awareness of the way their ontology may impact teaching and learning. The course will prepare students for the associated Professional Practice course (TEPP331) and also complement learning in other courses in the Graduate Diploma of Teaching and Learning (Primary).

P: Admission to the GradDipTchLn(Primary);

C: TEPP 331

TEPI331-21X (D) 01 Feb 2021 - 27 June 2021

TEPI 332 Professional and Educational Studies 2
15 Points 0.1250 EFTS

This course builds upon TEPI331 Professional and Educational Studies 1. It is a learner focussed study with experiences and tasks that extend students' understandings towards becoming successful beginning teachers. The course incorporates the principles and practice of planning, assessment, evaluation and reporting and explores the links between professional practice experiences and established educational theory. Pedagogical models, curriculum integration, the diverse needs of children and learning environments are explored within these contexts. Students will experience, as well as learn about, authentic inquiry-based learning and associated pedagogies, and 'teaching as inquiry' models. These experiences will further develop participant's personal teaching philosophy. The course will prepare students for the associated Professional Practice course and also complement learning in other courses in the Graduate Diploma of Teaching and Learning (Primary).

P: TEPI 331 only

C: TEPP 331 or TEPP 332

TEPI332-21YC2 (D) Year C Second Half

TEPI 333 Ngā Āhuatanga Māori and Learning Languages
15 Points 0.1250 EFTS

This course provides pre-service teachers with a theoretical and practical framework for language teaching and learning. The course develops the knowledge, confidence, skills, attitudes and dispositions needed to successfully plan, teach and evaluate programmes for language learning, including Te Reo Māori, international languages, Pasifika languages, English as an Additional Language, and New Zealand Sign Language. It also develops students' awareness of Māori culture, the rich cultural heritages of Aotearoa New Zealand, and responsive teaching practices that take account of learners' cultural and linguistic diversity. Students will be introduced to theories, resources, and pedagogical strategies appropriate to the teaching of languages and cultures. The course will also develop students' own competency in te reo Māori, and endorse their responsibilities as teachers for the promotion and protection of te reo Māori me Ngā Āhuatanga katoa in New Zealand schools. The course will complement learning in other courses in the Graduate Diploma of Teaching and Learning (Primary).

P: Admission to the GradDipTchLn(Primary)

R: TECP 350

TEPI333-21X (D) 01 Feb 2021 - 27 June 2021

TEPI 352 Professional Inquiry 2
15 Points 0.1250 EFTS

This course provides the link between theory and early childhood centre practice. It will equip students with the skills to be ethical teachers and competent team members and will clarify for students the myriad of administrative tasks associated with early childhood teaching. The course will assist students in developing a professional framework for their work with children and adults in early childhood settings.

P: TEPI 351

TEPI352-21S2 (D) Semester 2

TEPI 361 Becoming a professional teacher
15 Points 0.1250 EFTS

This course will guide students in the development of a professional framework for their work with children, families, and colleagues. It will examine the role and responsibilities of the ECE teacher. Students will learn how to integrate theory and practice.

C: TEPP 361

TEPI361-21YB1 (C) Year B First Half

TEPI361-21YB1 (D) Year B First Half

TEPI 362 Being a professional teacher
15 Points 0.1250 EFTS

This course provides the link between theory and early childhood centre practice. It will equip students with the skills to be ethical teachers and competent team members and will clarify for students the myriad of administrative tasks associated with early childhood teaching. The course will assist students in developing a professional framework for their work with children and adults in early childhood settings, with particular focus on a biculturally responsive framework for work with tamariki and whānau.

P: TEPI 361 and TEPP 361

C: TEPP 362

TEPI362-21S2 (C) Semester 2

TEPI362-21S2 (D) Semester 2

TEPI 370 Professional and Educational Studies 1
30 Points 0.2500 EFTS

This course provides the foundational principles for teaching and learning in secondary schools within the socio-political, cultural and historical context of the New Zealand education system. Students will critically engage with developmental, philosophical, ethical, professional and policy frameworks related to current educational issues that support inclusive and culturally responsive educational settings for diverse learners, while critically examining their own values, beliefs, attitudes and knowledge. The course includes a Noho Marae experience and Treaty of Waitangi workshop.

TEPI370-21YB1 (C) Year B First Half

TEPI 371 Professional and Educational Studies 2
15 Points 0.1250 EFTS

This course is an advance of Professional and Educational Studies 1 that is completed by all students. The emphasis is on becoming a professional teacher who can take account of problems that are often social, political and ethical in nature. It includes skill development in teaching: planning, classroom management, questioning skills, learning theories and multiple approaches to teaching using multimedia strategies and tools.

P: TEPI 370, TEPP 370

TEPI371-21S2 (C) Semester 2

TEPI 399 Ngā Rautaki Whakaako Reo me ngā Tikanga
15 Points 0.1250 EFTS

Ngā Rautaki Whakaako Reo me ngā Tikanga will emphasise the importance and uniqueness of actively using cultural knowledge to support Māori in Aotearoa / New Zealand educational settings. It will also prepare students to have an awareness of the ESOL students in their classes and provide some basic skills to help meet the needs of this group of learners.

TEPI399-21YB (C) Full Year B

TEPI 413 Professional Learning and Inquiry 1
15 Points 0.1250 EFTS

This course supports the development of foundational professional and pedagogical understandings for teaching and learning in schools in Aotearoa / New Zealand. Students will critically engage with Ministry of Education documents, professional frameworks and research that will support the development of positive, inclusive learning-focussed professional practices and environments in diverse school settings. Students complete a Treaty of Waitangi workshop within the course. The course complements learning in other courses and supports preparation for the first Professional Practice course in the PGDipTchLn primary and secondary endorsements.

R: TEPI 313

TEPI413-21X (D) 25 Jan 2021 - 20 June 2021

TEPI413-21YA1 (C) Year A First Half

TEPI 415 Understanding Every Learner: Intercultural and Inclusive Education

15 Points 0.1250 EFTS

Every learner is unique. This course will support student teachers to increase their understanding of the variety of unique characteristics that learners bring with them into school and learning settings while also providing them with frameworks for understanding each learner as a whole person. Intercultural understandings will be addressed by challenging ideas of normality; inclusiveness will be addressed through an abilities-based approach and tangata whenuatanga; and behaviour will be viewed as a medium of communication. From a practice perspective, the course will focus on what teachers can do to change and adapt their practices to meet the needs of every learner.

R: TEPI 315

TEPI415-21X (D) 25 Jan 2021 - 14 Nov 2021
TEPI415-21YA (C) Full Year A

TEPI 416 Tō tātou reo, ā tātou tikanga

15 Points 0.1250 EFTS

This course will support student teachers to extend their personal proficiency in te reo Māori through a communicative approach to language learning. Emphasis will be placed on student teachers learning how the use of te reo Māori in their planning for teaching and in their everyday school practices as a teacher. It will also assist student teachers to understand and evaluate their role in the revitalisation process of te reo Māori. Tikanga Māori and tikanga a iwi will be incorporated in this course through place-based pedagogies and socio-cultural understandings of knowledge. The course will draw explicitly from the core competencies of Tataiako (Ministry of Education, 2011) which will be enhanced by including the value of kaitiakitanga.

R: TEPI 316

TEPI416-21X (D) 25 Jan 2021 - 14 Nov 2021
TEPI416-21YA (C) Full Year A

TEPI 614 Professional Learning and Inquiry 2

15 Points 0.1250 EFTS

This course builds upon TEPI413 Professional Learning and Inquiry 1 and TEPP413 Professional Practice 1. It provides an opportunity for students to deepen understandings of professional and pedagogical aspects of teaching. Students will synthesise research-informed and experience-based knowledge in critical examination of their own and others' professional and pedagogical practices. Students will engage critically with contemporary educational issues and practice challenges including pedagogies for diverse learners and learning environments, and digital leadership. There is an emphasis on becoming an inquiring and critically reflective teacher, using 'teaching as inquiry' and evidence-based approaches to enhance learning. The course will prepare students for the associated Professional Practice course and also complement learning in other courses in the Postgraduate Diploma of Teaching and Learning.

P: TEPI 413

R: TEPI 314

TEPI614-21YA2 (C) Year A Second Half
TEPI614-21YA2 (D) Year A Second Half

TEPI 615 Research for Teaching

30 Points 0.2500 EFTS

Students in this course will examine contemporary educational issues that teachers face in practice in classrooms, schools, and communities. Students will unpack problems of practice using multiple theoretical and practice-based lenses. Issues of social justice, equity, diversity, tangata whenuatanga, and the ecological and cultural aspects of schools and schooling will be the central focus of the course, with student-directed topics also being explored. Positioning the teacher as researcher will allow students to explore varying approaches to educational research.

P: TEPI 614

TEPI615-21X (C) 15 Nov 2021 - 23 Jan 2022
TEPI615-21X (D) 15 Nov 2021 - 23 Jan 2022

TEPP 102 The Profession of Teaching: Understanding Learning

15 Points 0.1250 EFTS

This course is designed to deliver through practical application and first-hand experience in classrooms, the necessary curriculum and pedagogical content required of primary teachers. These experiences enable the student, his/her lecturers and associate teacher to systematically evaluate his/her developing knowledge and skill, identify emergent needs, and to record the student's progress in achieving course learning outcomes.

TEPP102-21A (D) Starts Anytime
TEPP102-21YC2 (C) Year C Second Half
TEPP102-21YC2 (N) Year C Second Half
TEPP102-21YC2 (D) Year C Second Half

TEPP 206 Professional Practice: Focus on Numeracy and Literacy

15 Points 0.1250 EFTS

This is a 200 level compulsory course which focuses on integrating and applying the theoretical knowledge of the BTChLn courses in early childhood settings for a 5 week period. TEPP206 Professional Practice 4 has a particular focus for students on their role in the provision of numeracy and literacy experiences within an early childhood context of Aotearoa New Zealand.

P: TEPI 230

TEPP206-21A (D) Starts Anytime
TEPP206-21T3 (C) 30 Aug 2021 - 03 Oct 2021
TEPP206-21T3 (D) 30 Aug 2021 - 03 Oct 2021

TEPP 221 Professional Practice: Organising for Learning

15 Points 0.1250 EFTS

This course is designed to deliver through practical application and first-hand experience in classrooms, the necessary curriculum and pedagogical content required of primary teachers. These experiences enable the student, his/her lecturers and associate teacher to systematically evaluate his/her developing knowledge and skill, identify emergent needs, and to record the student's progress in achieving course learning outcomes.

P: TEPI 230, TECM 101

C: TEPI 222

R: TEPP 211

TEPP221-21A (D) Starts Anytime
TEPP221-21T3 (D) 30 Aug 2021 - 03 Oct 2021
TEPP221-21T3 (C) 30 Aug 2021 - 03 Oct 2021
TEPP221-21T3 (N) 30 Aug 2021 - 03 Oct 2021

TEPP 252 Professional Practice 2

15 Points 0.1250 EFTS

This course provides students with opportunities to progress towards the demonstration of 200-level competencies and professional qualities. The course is closely linked to Professional Inquiry 1. Associate Teachers assist the College to assess students' developing competence as a teacher.

P: TEPP 152

TEPP252-21A (D) Starts Anytime

TEPP 305 Professional Practice: Assessment and Planning

15 Points 0.1250 EFTS

TEPP305 Professional Practice 5 has a particular focus for students on assessment and planning in an early childhood context of Aotearoa New Zealand. Students will be expected to integrate knowledge and skills from year one and year two courses and be able to observe and engage in planning and assessment within the centre programme.

P: TEPP 206

TEPP305-21A (D) Starts Anytime
TEPP305-21T1 (C) 15 Mar 2021 - 18 Apr 2021
TEPP305-21T1 (D) 15 Mar 2021 - 18 Apr 2021

TEPP 306 Professional Practice: Pedagogical Threads

15 Points 0.1250 EFTS

This course provides students with opportunities to progress towards the demonstration of appropriate competencies and professional qualities. The course is closely linked to The profession of Teaching - Te Umanga Ako - Tuia. Associate Teachers assist the College to assess students' developing competence as a teacher.

P: TEPP 305

TEPP306-21A (D) Starts Anytime
TEPP306-21T3 (C) 26 July 2021 - 29 Aug 2021
TEPP306-21T3 (D) 26 July 2021 - 29 Aug 2021

TEPP 313 Teaching Professional Practice 1

15 Points 0.1250 EFTS

This course and first teaching practice experience provides opportunities for pre-service teachers to enact learning about teaching and demonstrate professional skills, knowledge and dispositions. Pre-service teachers develop practice competence in school contexts, with professional support. Practice experience is focused on understanding and responding to learners, design for learning, establishing a learning-focused culture, fostering professional relationships, enacting principles relating to Te Tiriti o Waitangi, and engaging in professional learning. The course and teaching practice experience are closely linked to other courses in the GradDipTchgLn programme, through which opportunities are provided for examination of practice-related challenges and contributions to assignment requirements across the programme.

C: TEPI 313

R: TEPP 413

TEPP313-21A (C) Starts Anytime
TEPP313-21T1 (C) 01 Mar 2021 - 30 May 2021
TEPP313-21T1 (D) 01 Mar 2021 - 30 May 2021

TEPP 314 Teaching Professional Practice 2

15 Points 0.1250 EFTS

This course and second teaching practice experience provides opportunities for pre-service teachers to deepen their learning and reflection on teaching and demonstrate professional skills, knowledge and dispositions. Pre-service teachers deepen practice competence in school contexts, with professional support. Practice experience is focused on understanding and responding to learners, design for learning, establishing a learning-focused culture, fostering professional relationships, enacting principles relating to Te Tiriti o Waitangi, and engaging in professional learning. The course and teaching practice experience are closely linked to other courses in the GradDipTchgLn programme, through which opportunities are provided for examination of practice-related challenges and contributions to assignment requirements across the programme.

P: TEPP 313

C: TEPI 314

R: TEPP 414

TEPP314-21A (C) Starts Anytime
TEPP314-21T3 (C) 16 Aug 2021 - 31 Oct 2021
TEPP314-21T3 (D) 16 Aug 2021 - 31 Oct 2021

TEPP 320 Professional Practice: Understanding Myself as a Teacher

15 Points 0.1250 EFTS

This course is designed to deliver through practical application and first-hand experience in classrooms, the necessary curriculum and pedagogical content required of primary teachers. These experiences enable the student, his/her lecturers and associate teacher to systematically evaluate his/her developing knowledge and skill, identify emergent needs, and to record the student's progress in achieving course learning outcomes.

P: TEPI 222 and TEPP 221

TEPP320-21A (D)	Starts Anytime
TEPP320-21T1 (C)	15 Mar 2021 - 18 Apr 2021
TEPP320-21T1 (D)	15 Mar 2021 - 18 Apr 2021
TEPP320-21T1 (N)	15 Mar 2021 - 18 Apr 2021

TEPP 321 Professional Practice: Being a Teacher

15 Points 0.1250 EFTS

This course is designed to deliver through practical application and first-hand experience in classrooms, the necessary curriculum and pedagogical content required of primary teachers. These experiences enable the student, his/her lecturers and associate teacher to systematically evaluate his/her developing knowledge and skill, identify emergent needs, and to record the student's progress in achieving course learning outcomes.

TEPP321-21A (D)	Starts Anytime
TEPP321-21T3 (C)	26 July 2021 - 29 Aug 2021
TEPP321-21T3 (D)	26 July 2021 - 29 Aug 2021
TEPP321-21T3 (N)	26 July 2021 - 29 Aug 2021

TEPP 331 Professional Practice 1

15 Points 0.1250 EFTS

This first practicum course provides an intensive school-based opportunity for students to interact with and observe a range of teachers in a primary or intermediate school, and then work collaboratively with one mentor/associate teacher for a prolonged period of time. Students will observe, plan, teach, manage and assess student learning and then evaluate / critically appraise and reflect on their professional development. Teaching experiences will progress from working with small groups to full class, with the students taking increasing responsibility, with support and guidance, for daily programme /class management as the placement progresses. These experiences and the associated documentation, in conjunction with mentor/lecturer observations, will provide formative feedback in relation to the students developing knowledge, skill and practices, identify emergent needs, and enable summative assessment in relation to the course learning outcomes. Course outcomes are described as a series of competencies. The course will both complement and apply learning in other courses in the Graduate Diploma of Teaching and Learning (Primary)

C: TEPI 331 and TECP 331.

TEPP331-21A (C)	Starts Anytime
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TEPP 332 Professional Practice 2

15 Points 0.1250 EFTS

This second practicum course provides an intensive school-based opportunity for students to work collaboratively with one mentor/associate teacher for a prolonged period of time. Students will conduct observations, and use these, in conjunction with advice and guidance from their mentor teacher and content covered in other initial teacher education courses, to inform their planning, teaching, management and assessment strategies and the subsequent evaluation / critical appraisal of their teaching and professional development. Teaching experiences will progress, with students taking increasingly independent responsibility for full programme / class management as the placement progresses. These experiences and reflective practices enable the student, his/her lecturers and the associate teacher to provide formative feedback on his/her developing knowledge and skill, identify emergent needs, and to record the student's progress in achieving the course learning outcomes. Course outcomes are described as a series of competencies. The course will both complement and apply learning in other courses in the Graduate Diploma of Teaching and Learning (Primary).

P: TEPI 331 and TECP 331 and TEPP 331

C: TEPI 332 and TECP 332

TEPP332-21A (C)	Starts Anytime
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TEPP 352 Professional Practice 3

15 Points 0.1250 EFTS

This course provides students with opportunities to demonstrate 300-level competencies and professional qualities. The course is closely linked to Professional Inquiry 2. Associate Teachers assist the College to assess students' developing competence as a teacher.

P: TEPP 252, TECE 357 and TEPI 351

TEPP352-21A (C)	Starts Anytime
TEPP352-21A (D)	Starts Anytime

TEPP 361 Professional Practice 1

15 Points 0.1250 EFTS

This course provides students with opportunities to progress towards the demonstration of appropriate competencies and professional qualities. The course is closely linked to TEPI361, TECE359, TECE362 and TECE364. Associate Teachers assist the College to assess students' developing competence as a teacher.

C: TEPI 361

TEPP361-21A (C)	Starts Anytime
TEPP361-21X (C)	15 Feb 2021 - 27 June 2021
TEPP361-21X (D)	15 Feb 2021 - 27 June 2021

TEPP 362 Professional Practice 2

15 Points 0.1250 EFTS

This course provides students with opportunities to progress towards the demonstration of appropriate competencies and professional qualities. The course is closely linked to TEPI361, TEPI 362, TECE 359, TECE 361, TECE 358 and TECE 365. Associate Teachers assist the College to assess students' developing competence as a teacher.

P: TEPP 361 and TEPI 361

C: TEPI 362

TEPP362-21A (C)	Starts Anytime
TEPP362-21T3 (C)	06 Sep 2021 - 07 Nov 2021
TEPP362-21T3 (D)	06 Sep 2021 - 07 Nov 2021

TEPP 370 Teaching Practice 1

15 Points 0.1250 EFTS

This course provides an intensive school-based opportunity for students to observe, plan and teach lessons in a secondary school setting. Students are expected to plan, prepare, teach and evaluate part lessons, progressing to a short sequence of whole lessons. The focus is on foundational teaching skills such as communicating clear instructions and explanations, preventative class management, setting up class activities, and relating to pupils in the class. As the teaching practice experience progresses, the students are expected to take a greater role in planning and teaching a sequence of lessons, building towards teaching a unit of work with at least one class. Students take an increased responsibility for class management including corrective management of students. Students are expected to develop and maintain a portfolio that includes evidence of reflection on their teaching experiences. Expected outcomes are described as a set of competencies that are assessed by associate teachers and college lecturers.

C: TEPI 370

R: EDTP 306

TEPP370-21A (C)	Starts Anytime
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TEPP 371 Teaching Practice 2

15 Points 0.1250 EFTS

This course extends the requirements of TEPP370 so that students take a greater role in planning and teaching a sequence of lessons, building towards teaching a unit of work with at least one class. Students continue to take an increased responsibility for class management including corrective management of students. This course requires the students to assume responsibility for all aspects of teaching a unit of work at different class levels. These responsibilities include formative and summative assessment of learning, scaffolding of learning over time and attending to the learning needs of diverse students within a class. The teaching practice portfolio includes critical reflection about their teaching that takes account of a range of evidence of student learning. The focus is also on more interactive teaching strategies within both whole class and student activity. Each student's teaching practice portfolio includes critical evaluation and reflection of their teaching. Expected outcomes are described as a set of competencies that are assessed by associate teachers and college lecturers.

P: TEPP 370

C: TEPI 371

R: EDTP 307

TEPP371-21A (C)	Starts Anytime
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TEPP 413 Teaching Professional Practice 1

15 Points 0.1250 EFTS

This course and first teaching practice experience provides opportunities for pre-service teachers to enact learning and critically reflect on teaching and demonstrate professional skills, knowledge and dispositions. Pre-service teachers develop practice competence in school contexts, with professional support. Practice experience is focused on understanding and responding to learners, design for learning, establishing a learning-focused culture, fostering professional relationships, enacting principles relating to Te Tiriti o Waitangi, and engaging in professional learning. The course and teaching practice experience are closely linked to other courses in the PGDipTchgLn programme, through which opportunities are provided for examination of practice-related challenges and contributions to assignment requirements across the programme.

C: TEPI 413

R: TEPP 313

TEPP413-21A (C)	Starts Anytime
TEPP413-21T1 (C)	01 Mar 2021 - 30 May 2021
TEPP413-21T1 (D)	01 Mar 2021 - 30 May 2021

TEPP 414 Teaching Professional Practice 2

15 Points 0.1250 EFTS

This course and second teaching practice experience provides opportunities for pre-service teachers to deepen their learning and critical reflection on teaching and demonstrate professional skills, knowledge and dispositions. Pre-service teachers deepen practice competence in school contexts, with professional support. Practice experience is focused on understanding and responding to learners, design for learning, establishing a learning-focused culture, fostering professional relationships, enacting principles relating to Te Tiriti o Waitangi, and engaging in professional learning. The course and teaching practice experience are closely linked to other courses in the PGDipTchgLn programme, through which opportunities are provided for examination of practice-related challenges and contributions to assignment requirements across the programme.

P: TEPP 413

C: TEPI 614

R: TEPP 314

TEPP414-21A (C)	Starts Anytime
TEPP414-21T3 (C)	16 Aug 2021 - 31 Oct 2021
TEPP414-21T3 (D)	16 Aug 2021 - 31 Oct 2021

Te Reo Māori

Aotahi: School of Māori and Indigenous Studies

TREO 110 Conversational Māori for Absolute Beginners

15 Points 0.1250 EFTS

A beginner's course in Māori language for those with no previous background in Te Reo Māori. Students will learn basic informal and formal greetings, introductory songs, proverbs, idiom, including a variety from Ngāi Tahu, how to introduce themselves, express family relationships and the course will enable them to hold a basic conversation. This is a highly recommended language option for those who might work with Māori people or who just wish to familiarise themselves with the language. Students who have been credited with higher level TREO language courses cannot credit TREO 110. Students with prior knowledge or who are literate and/or fluent speakers of Te Reo may not enrol in this course without the permission of the Programme Director

R: MAOR 105, MAOR 110, MAOR 111, MAOR 112, MAOR 115, MAOR 124, MAOR 125

TREO110-20SU2 (C) Summer (Nov 20)

TREO110-20SU2 (D) Summer (Nov 20)

This is an intensive introductory course of Te Reo designed for students with no previous knowledge of the language. Students who have been credited with any of TREO111, TREO112, TREO180, TREO260, TREO280, TREO360 or TREO380 cannot subsequently be credited with TREO110. Students with prior knowledge or who are literate and/or fluent speakers of Te Reo may not enrol in this course without the permission of the Programme Director, which will be granted only if the course is appropriate to the level of competence of the student

TREO 111 Te Ngao Pae 1: Introductory Reo 1

15 Points 0.1250 EFTS

An entry level course for those who wish to develop writing and speaking skills in Māori. Students learn an array of sentence constructions and vocabulary that will enable them to talk and write in several contexts about a wide variety of relationships and events in the present and the past. Students are exposed to cultural elements such as mihi, whakatauki and kiwaha, including a variety specific to Ngāi Tahu. The course blends academic study of the language with a range of teaching techniques including language games, waiata and group activities.

P: TREO 110 or placement test. Students wishing to enter TREO 111 must have a basic knowledge of te reo Māori including an understanding of correct pronunciation, basic greetings, days of the week, parts of the body etc. Students that are more competent in te reo Māori should complete a placement test to assess their level.

R: MAOR 105, MAOR 110, MAOR 111, MAOR 115, MAOR 124, MAOR 125

TREO111-21S1 (C) Semester 1

TREO 112 Te Ngao Pae 2: Introductory Reo 2

15 Points 0.1250 EFTS

A second level beginners' course in Te Reo Māori for those who have completed TREO111 or who have the equivalent level of proficiency. This course focusses on acquisition of more complex sentence constructions and extends knowledge of Māori vocabulary. In particular, knowledge of verbal sentences is enhanced by a study of commands, passive sentences, negatives and future constructions. Possessive phrases and sentence structures are also studied. The course blends academic study of the language with a range of teaching techniques including language games, waiata, group activities and the introduction of an immersion learning environment. Students are also exposed to whakatauki and kiwaha including some of those from Ngāi Tahu.

P: TREO 111, or 18 credits in NCEA Te Reo Māori level 1, mostly excellence, or by placement test.

R: MAOR 106, MAOR 110, MAOR 112, MAOR 115, MAOR 125, MAOR 126

TREO112-21S2 (C) Semester 2

TREO 211 Te Ngao Mamaku 1

15 Points 0.1250 EFTS

An intermediate level course in Te Reo Māori for those who have completed TREO112 or who have recognised prior learning. This course continues the study of the structure of Te Reo Māori and extends your speaking skills through the study of a range of everyday topics. The course aims to increase the range and fluency of conversational ability to help lay the groundwork for future growth.

P: TREO 112

R: TREO 260

TREO211-21S1 (C) Semester 1

TREO 212 Te Ngao Mamaku 2

15 Points 0.1250 EFTS

An intermediate level course in Te Reo Māori for those who have completed TREO211 or who have recognised prior learning. This course continues the study of the structure of Te Reo Māori and extends your speaking skills through the study of a range of everyday topics. The course aims to increase the range and fluency of conversational ability to help lay the groundwork for future growth.

P: TREO 112

R: TREO 260

TREO212-21S2 (C) Semester 2

TREO 282 Kapa Haka - Introducing Māori Performing Arts

15 Points 0.1250 EFTS

Designed for Māori and non-Māori, performance competent and new learners, language and non-language students this course takes the class on a journey of exploration to a high level of performance. Course content includes study of the mythological and traditional origins and customs of performing arts from moteatea (traditional song), poi (ball dance), waiata a-ringā (action song), haka and the art of

warfare and mau rakau (weaponry - ti rakau, titi torea, hapai rakau, taiaha, patu). The course also covers the role of male and female leaders, biographies of important composers and the renaissance of kapa haka and its place in Māori culture and society. Students learn a full performance bracket which includes a distinctive Ngāi Tahu component as well as a selection of historical and sacred classic tribal anthems.

P: Any 15 points at 100 level from MAOR, MUSA, or TREO, or 60 points at 100 level from the Schedule V of the BA.

R: MAOR 265, MAOR 282, TREO 382, MUSA 252

EQ: MAOR 282, MUSA 252

TREO282-21S2 (C) Semester 2

TREO 311 Te Ngao Matariki 1

30 Points 0.2500 EFTS

An advanced level course in Te Reo Māori for those who have completed TREO212. The aim of the course is to increase the depth of knowledge and skill in delivery of the students' Māori language so that they will have a clearer understanding of the oral and written traditions of Māori society and the working language of today's Māori world and be able to converse more effectively in Māori. Students will be encouraged to speak and write about their thoughts on a range of topics. This course continues the study of the structure of the language and extends speaking skills. The main language of instruction is the Māori language.

P: TREO 212

R: TREO 360

TREO311-21S1 (C) Semester 1

TREO 312 Te Ngao Matariki 2

30 Points 0.2500 EFTS

An advanced level course in Te Reo Māori for those who have completed TREO311. The aim of the course is to increase the depth of knowledge and skill in delivery of the students' Māori language so that they will have a clearer understanding of the oral and written traditions of Māori society and the working language of today's Māori world and be able to converse more effectively in Māori. Students will be encouraged to speak and write about their thoughts on a range of topics. This course continues the study of the structure of the language and extends speaking skills. The main language of instruction is the Māori language.

P: TREO 311

R: TREO 360

TREO312-21S2 (C) Semester 2

TREO 323 Tuhinga Rangahau

30 Points 0.2500 EFTS

Advanced level research essay in Te Reo Māori for students with a demonstrated ability to progress to postgraduate research study and thesis writing.

P: TREO 260 and permission of the Head of School

TREO323-21S2 (C) Semester 2

PACE 395 Internship

30 Points 0.2500 EFTS

What can you do with your major? With your degree? The purpose of the internship course is to explore both the ideological and practical assumptions guiding this question. The course is designed to be a critical, theoretical and "real-world" examination of the practices and ideologies inherent in both community and business organisations. You will apply the analytical skills acquired through your major, and through class seminars and readings, to a project designed by a local company or community group. Please check out the website for further information and specific project descriptions: www.arts.canterbury.ac.nz/internships

P: 150 points, special application and interview, and permission of the Internship Director.

R: ARTS 395

EQ: ARTS 395

PACE395-20SU2 (C) Summer (Nov 20)

PACE395-21A (C) Starts Anytime

PACE395-21S1 (C) Semester 1

PACE395-21S2 (C) Semester 2

Limited entry. See limitation of entry regulations. A student will be selected for a specific project. Only students accepted for projects will be allowed into the course. Please go to <http://www.arts.canterbury.ac.nz/internships> for more information.

Tāura | Postgraduate

Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.

TREO 401 Te Ngao ki Hawaiki

30 Points 0.2500 EFTS

Ma te reo Māori nga mahi a te karaehei nei e kawae ai i nga kaupapa ako ka wanangahia nei e tatou. Ko te whaingā matua ko te ako i te reo korero, te reo tuihitihi, ka tahi, ka rua ko te ata whakaaro he aha ke te wairua o te reo Māori me pupuri tonutia nei. Ka tiro tatou ki nga korero tuku iho penei i te whakatauki, kiwaha me era momo o te reo. Ko tona whaingā matua kia ata whawha i te hohonutanga o te whakaaro me ona tohutohu mo te ao e noho nei tatou. Ka tiro ano hoki tatou ki nga kaupapa tikanga, nga whakapono a te Māori, nga mihi me nga poroporoaki, era ahuatanga katoa o te reo Māori.

P: Subject to approval of the Head of School.

R: MAOR 408, EDEM 660

EQ: MAOR 408, EDEM 660

TREO401-21S1 (C) Semester 1

TREO 403 He Wānanga

30 Points 0.2500 EFTS

An advanced te reo Māori course based in Māori philosophical and conceptual thought and beliefs. The course involves noho marae with prominent experts in te reo Māori. Students will use wānanga to discuss, develop and shape work in their chosen fields.

P: Subject to approval of the Head of School.

TREO403-21S2 (C) Semester 2**TREO 405 Te Whakaora: Language Revitalisation**

30 Points 0.2500 EFTS

Students will critically examine the historical repression of the Māori language/indigenous languages and the growth of language revitalisation movements in the twentieth century. They will review the key educational and Māori development drivers in Māori/iwi led movements: Kohanga Reo, Kura Kaupapa Māori, Wharekura, Wānanga and bilingual/immersion programmes. They will assess the role that teachers can play in creating and shaping communities of language learners and develop appropriate strategic plans.

P: Subject to approval of the Head of School.

R: EDEM 657, EDHP 702

EQ: EDEM 657, EDHP 702

TREO405-21S2 (C) Semester 2**TREO 407 Waka Huia**

30 Points 0.2500 EFTS

A transcription, translation and annotation project using the School's collection of Waka Huia tapes.

P: Subject to approval of the Head of School.

R: MAOR 416

EQ: MAOR 416

TREO407-21S1 (C) Semester 1**TREO 480 Rangahau - Research Project**

30 Points 0.2500 EFTS

This course is designed for students with a demonstrated ability to conduct postgraduate research and/or progress to thesis writing in Te Reo Māori. Students are invited to discuss a topic of their choice with staff. Students are expected to make a short presentation at the School's Annual Matariki Research Seminar Series

P: Subject to approval of the Head of School.

TREO480-21S2 (C) Semester 2**TREO 590 Rangahau - Major Research Dissertation**

90 Points 0.7500 EFTS

This course is designed for students with a demonstrated ability to conduct postgraduate research and/or progress to thesis writing in Māori and Indigenous Studies. Students are invited to discuss a topic of their choice with staff. Students are expected to make a short presentation at the School's Annual Matariki Research Seminar Series.

P: Subject to approval of the Head of School.

TREO590-21A (C) Starts Anytime**TREO590-21W (C) Whole Year (S1 and S2)****TREO 591 Rangahau - Minor Research Dissertation**

60 Points 0.5000 EFTS

This course is designed for students with a demonstrated ability to conduct postgraduate research and/or progress to thesis writing in Māori and Indigenous Studies. Students are invited to discuss a topic of their choice with staff. Students are expected to make a short presentation at the School's Annual Matariki Research Seminar Series.

P: Subject to approval of the Head of School.

TREO591-21A (C) Starts Anytime**TREO591-21W (C) Whole Year (S1 and S2)****TREO 592 Rangahau - Research Paper**

30 Points 0.2500 EFTS

This course is designed for students with a demonstrated ability to conduct postgraduate research and/or progress to thesis writing in Māori and Indigenous Studies. Students are invited to discuss a topic of their choice with staff. Students are expected to make a short presentation at the School's Annual Matariki Research Seminar Series

P: Subject to approval of the Head of School.

TREO592-21S1 (C) Semester 1**TREO 593 Rangahau - Research Paper**

30 Points 0.2500 EFTS

This course is designed for students with a demonstrated ability to conduct postgraduate research and/or progress to thesis writing in Māori and Indigenous Studies. Students are invited to discuss a topic of their choice with staff. Students are expected to make a short presentation at the School's Annual Matariki Research Seminar Series

P: Subject to approval of the Head of School.

TREO593-21S2 (C) Semester 2**TREO 595 Tuhinga Pūkenga - Creative or Professional Writing Project**

90 Points 0.7500 EFTS

This course allows students produce creative works which return te reo Māori to a language of the arts, professional works which return te reo to a language of political and community dialogue, or language revitalisation strategies that effectively normalise te reo Māori in ever expanding segments of our community and translations which enable historical and contemporary works to be bilingual and timeless.

P: Subject to approval of the Head of School.

TREO595-21A (C) Starts Anytime**TREO 650 MA Dissertation**

60 Points 0.5000 EFTS

MA Dissertation

P: Subject to approval of the Head of Department.

TREO650-21A (C) Starts Anytime**TREO650-21S1 (C) Semester 1****TREO650-21S2 (C) Semester 2****TREO 690 MA Thesis**

120 Points 1.0000 EFTS

P: Subject to approval of the Head of School.

TREO690-21A (C) Starts Anytime*Part-time enrolment (0.65 EFTS) is available on approval.***TREO 790 Te Reo Māori PhD**

120 Points 1.0000 EFTS

Te Reo Māori PhD

P: Subject to approval of the Head of Department.

TREO790-21A (C) Starts Anytime

Transitions

*Student Transitions and Engagement***TRNS 001 Academic Writing and Study Skills**

15 Points 0.1250 EFTS

This course provides an introduction to the conventions of academic reading, writing, referencing and research. Students will be introduced to a variety of study skills such as time management, reflection and revision.

P: Subject to approval of the Programme Manager.

R: PREP 001, BRDG 006

TRNS001-20SU2 (C) Summer (Nov 20)**TRNS001-20SU2 (D) Summer (Nov 20)****TRNS001-21B1 (C) Bridging 1****TRNS001-21B1 (D) Bridging 1****TRNS001-21B2 (C) Bridging 2****TRNS001-21B2 (D) Bridging 2****TRNS001-21B3 (C) Bridging 3****TRNS001-21B3 (D) Bridging 3****TRNS 002 Te Uku: Perspectives on the history and political expansions of Aotearoa and the Pacific**

15 Points 0.1250 EFTS

The purpose of this course is to give students a foundational knowledge base on the history of migration and peopling of the Pacific with a strong focus on Aotearoa and the political connections between Māori and the British Crown. With the analysis of various forms of media and historical texts, TRNS002 explores contemporary truths of Aotearoa and examines how influence and perception have moulded New Zealand culture, politics, and society.

P: Subject to approval of the Programme Manager

R: BRDG 035

TRNS002-21SU1 (C) Summer (Jan 21)**TRNS002-21SU1 (D) Summer (Jan 21)****TRNS002-21B1 (C) Bridging 1****TRNS002-21B1 (D) Bridging 1****TRNS002-21B2 (C) Bridging 2****TRNS002-21B2 (D) Bridging 2****TRNS002-21B3 (C) Bridging 3****TRNS002-21B3 (D) Bridging 3****TRNS 003 An Introduction to Social Issues and Challenges**

15 Points 0.1250 EFTS

The purpose of this course is to give students an introduction to the social sciences by closely examining a variety of perspectives on social issues within Aotearoa and beyond. It introduces students to the exploration of how institutions and dominant paradigms influence

social thought and norms at particular times. Through the analysis of texts and media, this comparative study of societies will cover topics that provide insights into local and international approaches to social issues.

P: Subject to approval of the Programme Manager
R: BRDG 011 and BRDG 034

TRNS003-20SU2 (C)	Summer (Nov 20)
TRNS003-20SU2 (D)	Summer (Nov 20)
TRNS003-21B1 (C)	Bridging 1
TRNS003-21B1 (D)	Bridging 1
TRNS003-21B2 (C)	Bridging 2
TRNS003-21B2 (D)	Bridging 2
TRNS003-21B3 (C)	Bridging 3
TRNS003-21B3 (D)	Bridging 3

TRNS 004 Teacher Education and Educational Studies

15 Points 0.1250 EFTS

In this course students will gain a basic understanding of the nature and purpose of education, both in general and in the specific Aotearoa New Zealand context, and of what factors contribute to effective learning and teaching. Students will be introduced to important documents such as the New Zealand Curriculum (2007) and Te Whariki (2017). Issues related to diversity and inclusion in education will be explored with consideration also of the wider contexts in which the education system operates.

P: Subject to approval of the Programme Manager.

R: PREP 018, BRDG 014

TRNS004-21SU1 (C)	Summer (Jan 21)
TRNS004-21SU1 (D)	Summer (Jan 21)
TRNS004-21B1 (C)	Bridging 1
TRNS004-21B1 (D)	Bridging 1
TRNS004-21B2 (C)	Bridging 2
TRNS004-21B2 (D)	Bridging 2
TRNS004-21B3 (C)	Bridging 3
TRNS004-21B3 (D)	Bridging 3

TRNS 005 Exploring the Psychology and Biology of the Human Mind

15 Points 0.1250 EFTS

This course will introduce students to the main psychological approaches used to explain behaviour and key biological concepts relevant to human biology such as genetic expression and variation, basic cellular processes and evolution. Students will also discuss ethical challenges associated with research in the fields of biology and psychology.

P: Subject to approval of the Programme Manager

TRNS005-21SU1 (C)	Summer (Jan 21)
TRNS005-21SU1 (D)	Summer (Jan 21)
TRNS005-21B1 (C)	Bridging 1
TRNS005-21B1 (D)	Bridging 1
TRNS005-21B2 (C)	Bridging 2
TRNS005-21B2 (D)	Bridging 2
TRNS005-21B3 (C)	Bridging 3
TRNS005-21B3 (D)	Bridging 3

TRNS 006 Chemistry: An introduction to atoms, bonding, and reactions

15 Points 0.1250 EFTS

This course is designed to provide students with a basic understanding of chemical principles and the language of chemistry in order to better describe the properties and reactions of elements and compounds. Laboratory sessions will allow students to apply their knowledge and develop their practical skills. Students will be introduced to key chemical principles as they study a range of chemical reactions, including precipitation reaction, oxidation-reduction reactions, acid-base reactions, equilibrium reactions and some simple organic reactions, throughout the course. Key chemical principles covered include; atomic structure, chemical bonding, Bronsted-Lowry theory of acids and bases, Lewis Diagrams, molecular shape, energy and enthalpy in chemistry, Le Chatelier's principle, qualitative and quantitative analysis and the mole concept. As this is an introductory course it has been designed to allow for students with little or no background in chemistry. However, students with a weak chemistry background will find the course challenging and will need to spend more time studying in their own time.

P: Subject to approval of the Programme Manager.

R: PREP 010, BRDG 023

TRNS006-21SU1 (C)	Summer (Jan 21)
TRNS006-21B1 (C)	Bridging 1
TRNS006-21B1 (D)	Bridging 1
TRNS006-21B2 (C)	Bridging 2
TRNS006-21B2 (D)	Bridging 2
TRNS006-21B3 (C)	Bridging 3
TRNS006-21B3 (D)	Bridging 3

TRNS 007 Preparatory Mathematics

15 Points 0.1250 EFTS

In this course, students will develop basic skills in algebra, including the application of algebra to the physical sciences and commerce. Students will also be introduced to some basic concepts in trigonometry and calculus. The course aims to build students' confidence and the mathematical knowledge and skills necessary for success in MATH101: Methods of Mathematics.

P: Subject to approval of the Programme Manager.

R: BRDG 015, FOUN 046, BRDG 018, BRDG 016

TRNS007-20SU2 (C)	Summer (Nov 20)
TRNS007-21B1 (C)	Bridging 1
TRNS007-21B1 (D)	Bridging 1
TRNS007-21B2 (C)	Bridging 2
TRNS007-21B2 (D)	Bridging 2
TRNS007-21B3 (C)	Bridging 3
TRNS007-21B3 (D)	Bridging 3

TRNS 008 Fundamental Physics

15 Points 0.1250 EFTS

The course covers basic concepts in the areas of Mechanics, Electricity, and Magnetism, preparing students for 100-level Physical Science courses. The course provides experience in theoretical and practical Physics, develops relevant practical and reporting skills, and helps students develop the skills and attitudes necessary for successful problem solving, investigation, and enquiry in Physics. The course will help students develop an appreciation of Physics as a human activity with applications and technological developments relevant to the lives of everyday people.

P: Subject to approval of the Programme Manager. Students enrolling in this course need familiarity with algebra. Recommended course TRNS 007 or BRDG 016.

R: FOUN 060, BRDG 024

TRNS008-21SU1 (C)	Summer (Jan 21)
TRNS008-21B1 (C)	Bridging 1
TRNS008-21B1 (D)	Bridging 1
TRNS008-21B2 (C)	Bridging 2
TRNS008-21B2 (D)	Bridging 2
TRNS008-21B3 (C)	Bridging 3
TRNS008-21B3 (D)	Bridging 3

TRNS 009 An Introduction to Statistics and Probability

15 Points 0.1250 EFTS

The course will begin with an introduction to basic numeracy and algebra. Statistics will be covered at an entry level, introducing an understanding of what statistics is, what is data and an introduction in how to collect, analyse, present, interpret and use data appropriately. Key subject areas that will also be covered include discrete and continuous random variables and probability. This is an introductory statistics course suitable for students with no prior knowledge or experience of statistics. However, Students who have not studied maths or statistics previously or beyond NCEA level 1 will find this course challenging and will need to work extra hard in their own time to ensure they keep up. The aim of this course is to provide students with the necessary math and statistical knowledge and skills in preparation for the 100 level statistics course, STAT101.

P: Subject to approval of the Programme Manager.

R: PREP 005, BRDG 019

TRNS009-20SU2 (C)	Summer (Nov 20)
TRNS009-20SU2 (D)	Summer (Nov 20)
TRNS009-21B1 (C)	Bridging 1
TRNS009-21B1 (D)	Bridging 1
TRNS009-21B2 (C)	Bridging 2
TRNS009-21B2 (D)	Bridging 2
TRNS009-21B3 (C)	Bridging 3
TRNS009-21B3 (D)	Bridging 3

TRNS 010 Digital Data: An exploration of the use and pervasiveness of data in a digitised society

15 Points 0.1250 EFTS

In this course, students will learn what data is and how it is used. It covers what it means for information to be stored, transferred, interpreted and processed by machines. It considers data critically as it makes preliminary exploration of how data is collected through devices and applications, to inform business decisions, government priorities, and scientific discoveries. Students learn to use and analyse data and to report and present their findings.

P: Subject to approval of the Programme Manager

TRNS010-21SU1 (C)	Summer (Jan 21)
TRNS010-21SU1 (D)	Summer (Jan 21)
TRNS010-21B1 (C)	Bridging 1
TRNS010-21B1 (D)	Bridging 1
TRNS010-21B2 (C)	Bridging 2
TRNS010-21B2 (D)	Bridging 2
TRNS010-21B3 (C)	Bridging 3
TRNS010-21B3 (D)	Bridging 3

TRNS 011 An Introduction to Business

15 Points 0.1250 EFTS

This course explores the fundamental principles and concepts of accounting and economics through simulated business examples. Students learn to estimate the value and the current state of the business and consider factors that affect growth opportunities, costs, risks, and prices. Students will be required to interpret information, situations, problems, decisions, and do equations that they are likely to encounter in the commercial sector.

P: Subject to approval of the Programme Manager

R: BRDG 028, BRDG 029

TRNS011-21SU1 (C)	Summer (Jan 21)
TRNS011-21SU1 (D)	Summer (Jan 21)
TRNS011-21B1 (C)	Bridging 1

Translation and Interpreting

TRNS011-21B1 (D)	Bridging 1
TRNS011-21B2 (C)	Bridging 2
TRNS011-21B2 (D)	Bridging 2
TRNS011-21B3 (C)	Bridging 3
TRNS011-21B3 (D)	Bridging 3

TRNS 012 An Invitation to Law

15 Points 0.1250 EFTS

This course provides a background to future legal study by introducing students to the sources of New Zealand law, and some basic understanding of how law is made and applied in the New Zealand legal system. Selected legal topics are used as a means of developing an understanding of the legal system and the skills for an organised approach to problem solving.

P: Subject to approval of the Programme Manager.

R: PREP 016, BRDG 031

TRNS012-21SU1 (C) Summer (Jan 21)

TRNS 013 Special Topic

15 Points 0.1250 EFTS

P: Subject to approval of the Programme Manager.

R: BRDG 032

TRNS013-21B1 (C)	Bridging 1
TRNS013-21B2 (C)	Bridging 2
TRNS013-21B3 (C)	Bridging 3

TRNS 017 Mathematics with Calculus

15 Points 0.1250 EFTS

In this course, students will strengthen their algebra skills while developing their skills in trigonometry and calculus. The course provides opportunities for students to set up mathematical models to solve problems. The mathematics in this course has applications in the areas of engineering, science, and commerce. The course aims to build students' confidence and the mathematical knowledge and skills for success in EMTH118 and MATH102.

P: FOUN 046, BRDG 016, or equivalent. Subject to approval of the Programme Manager.

R: FOUN 047, BRDG 017

TRNS017-21SU1 (C) Summer (Jan 21)

MATH 101 Methods of Mathematics

15 Points 0.1250 EFTS

Introduction to calculus, trigonometry and algebra. Emphasis on setting up mathematical models of problems, solving them and interpreting the solutions. Applications to the physical, life and earth sciences as well as to commerce and the humanities.

R: MATH 199

MATH101-21S1 (C)	Semester 1
MATH101-21S2 (C)	Semester 2

Translation and Interpreting

Language, Social and Political Sciences

Tāura | Postgraduate

Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.

LANC 401 In Other Words What? Theory and Practice of Translation

30 Points 0.2500 EFTS

An introduction to Translation Studies for students skilled in two or more languages, including aspects of modern theory and practice in the craft of accurate translation.

P: Subject to approval of the Head of Programme.

LANC401-21S1 (C) Semester 1

LANC 403 Translation in the digital era: tools and practices

30 Points 0.2500 EFTS

The recent revolutionary upheaval in the field of technology has brought far-reaching changes within the discipline of translation in today's digital world. This course introduces students to the fundamentals of contemporary translation technology and its varied applications, including the basics of audio-visual translation (AVT) and the use of Computer-Assisted Translation Tools, especially SDL Trados Studio.

P: Subject to the approval of the Head of Department.

LANC403-21S1 (C) Semester 1

LANC 404 Translating and Interpreting for the Community

30 Points 0.2500 EFTS

This course focuses on the concept of Community Translation and Interpreting, of which the purpose is to provide members of minority communities language access to public services offered both routinely and in a crisis scenario. This course will introduce functional translation theories as the theoretical framework with practical advice and discussion on both achievement of pragmatic equivalence and significance of self-reflection on students' development of individual translation/interpreting skills.

P: Subject to the approval of the Head of Department.

LANC404-21S1 (C) Semester 1

LANC 405 Translation Portfolio

30 Points 0.2500 EFTS

This is a portfolio of independent advanced translation work completed by the student as a concluding part of their programme of study. This work will reflect some of the key theoretical and practical issues addressed in the programme prescriptions and will include translations of at least 10000 words in total, of at least three different types (health, legal, literary, business, etc.). This work will be supervised by a staff member from the relevant language programme.

P: LANC 401, and LANC 403 or LANC 404, and Subject to the approval of the Head of Department.

LANC405-21S1 (C) Semester 1

LANC405-21S2 (C) Semester 2

LANC 406 Translation Research Project

60 Points 0.5000 EFTS

This is an extended project in which students will complete the translation of a substantial source text of their choice of at least 10000 words and will supplement the translation with a research essay of 10-12000 words in which they reflect critically on the translatability of the chosen text, on their translation strategy as well as on various theoretical issues pertinent to their translation choices. This work will be supervised by a staff member from the relevant language programme.

P: LANC 401, and LANC 403 or LANC 404, and Subject to the approval of the Head of Department.

LANC406-21S1 (C) Semester 1

LANC406-21S2 (C) Semester 2

Transportation Engineering

Department of Civil and Natural Resources Engineering

Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.

ENTR 602 Accident Reduction and Prevention

15 Points 0.1250 EFTS

Impact on society; data analysis and interpretation; hazardous location identification; problem diagnosis; treatment options; treatment selection; economic appraisal; evaluation.

P: Subject to approval of the Programme Director

ENTR602-21S1 (C) Semester 1

ENTR 608 Special Topic: Traffic Management and Monitoring

15 Points 0.1250 EFTS

This course will provide students with a fundamental understanding of traffic network estimation techniques, including control theory, traffic estimation and traffic control techniques using a variety of simulation and software packages. This course is expected to develop student skills to the level where the student understands the theory behind traffic control and can identify, diagnose and manage traffic flow problems.

P: Subject to approval of the Programme Director.

ENTR608-21S2 (C) Semester 2

ENTR 615 Advanced traffic flow theory and simulation

15 Points 0.1250 EFTS

This course introduces advanced concepts and principles of traffic flow modelling. Participants will also obtain skills in the practical application of traffic simulation software.

P: ENCN 412: traffic engineering or equivalent

ENTR615-21S2 (C) Semester 2

ENTR 616 Transport Planning and Modelling

15 Points 0.1250 EFTS

Urban transport planning models; Geographic information systems; Travel demand modelling and prediction; Project appraisal; Advanced traffic/transport modelling.

P: Subject to approval of the Programme Director

R: ENTR 605

ENTR616-21S1 (C) Semester 1

ENTR 620 Independent Course of Study

15 Points 0.1250 EFTS

Independent course of study in a special topic.

P: Subject to approval of the Programme Director.

ENTR620-21A (C) Starts Anytime**ENTR 680 Project**

60 Points 0.5000 EFTS

P: Subject to approval of the Programme Director

ENTR680-21A (C) Starts Anytime**ENTR 690 MET Thesis (full-time)**

120 Points 1.0000 EFTS

P: Subject to approval of the Programme Director

ENTR690-21A (C) Starts Anytime*Part-time enrolment (0.65 EFTS) is available on approval.***ENTR 790 Transportation Engineering PhD**

120 Points 1.0000 EFTS

P: Subject to approval of the Programme Director

ENTR790-21A (C) Starts Anytime*Part-time enrolment (0.65 EFTS) is available on approval. *From 1 January 2008, international students who are residing in New Zealand on a NZ Immigration Study Visa pay the Domestic Fee for this course. International fees apply for all other courses.*

Water Resource Management

Waterways Centre for Freshwater Management

WATR 201 Freshwater Resources

15 Points 0.1250 EFTS

Characterisation and assessment of freshwater resources and current stresses upon these.

Topics will include; characteristics and vulnerability of the hydrological cycle, aquatic processes and aquatic ecosystems, cultural values, hazards, anthropogenic use, stresses and their effects on water quality, quantity, ecosystem health/diversity and future use, resource limitations and connections to economy, tools and techniques for resource assessment.

P: Any 75 points at 100 level

WATR201-21S2 (C) Semester 2*Fieldwork is required.***WATR 203 Freshwater Science Field Skills**

15 Points 0.1250 EFTS

In this course students will develop practical skills in sampling freshwaters, identification of freshwater organisms, and assessing hydrological conditions and water-quality.

P: A freshwater-related course of study or appropriate freshwater-related work experience as determined by the Head of Programme.

WATR203-20SU2 (C) Summer (Nov 20)**WATR 301 Water Resource Management**

15 Points 0.1250 EFTS

Management of freshwater resources and current issues relating to the use of water. Topics will include; frameworks for water management, reconciling economic, environmental, social and cultural needs, conflicts over water resource use, legislative requirements, hazard management and mitigation, and future water uses. Includes a half-day fieldtrip.

P: 45 points at 200 level in any subject area.

WATR301-21S1 (C) Semester 1*Fieldwork is required.*

Tāura | Postgraduate

*Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.***WATR 401 Advanced Water Resources**

15 Points 0.1250 EFTS

Freshwater resource definition, characterisation, use, and impacts of exploitation and their management or mitigation. Topics will include; perspectives/values (including cultural) associated with water bodies, anthropogenic stresses and their effects on resources, key aquatic and ecosystems processes, methods of characterisation and impact assessment, hazards, NZ legislative frameworks relating to water and environmental resource, and catchment management approaches. Will include a compulsory one-day fieldtrip.

P: (1) Entry is subject to approval by the Programme Director (2)BSc, BE(Hons), BEMP (LU) or equivalent qualification or experience in a field of relevance in water resource management

WATR401-21S1 (C) Semester 1*Fieldwork is required.***WATR 402 Water Quality and Quantity Assessment**

15 Points 0.1250 EFTS

Quantification of freshwater water resources, and methods for environmental impact control and mitigation. Topics to include; measuring flow, quality and ecosystem health, development and application of national standards, indicators (including cultural indicators) and guidelines for water quantity and quality, point- and non-point source contaminant characterisation, monitoring programme design & implementation, modelling resource change, and drinking/waste water treatment methods. Candidates should note that this course includes a block course in the mid-semester break. Actual dates of the course to be advised.

P: (1) Entry is subject to approval by the Programme Director (2) BSc, BE, BEMP (LU) or equivalent qualification or experience in a field of relevance in water resource management

WATR402-21S2 (C) Semester 2*Fieldwork is required.***WATR 403 Water Management, Policy and Planning**

15 Points 0.1250 EFTS

Resource management models, policy and planning, within the context of environmental legislation and sound resource management. Topics will include; Resource management models for integrating environmental, social, economic and cultural water values; Legislative frameworks for water governance and management, including local, regional, national and international policy development and water management strategies; Hazard risk assessment and management for resilience; Professional ethics; RMA policy, planning and consenting procedures, using case studies of water use; Projections of future issues, alternative sustainable management and legislative strategies. Will include a compulsory one-day fieldtrip.

P: (1) Entry is subject to approval by the Programme Director, (2) BSc, BE, BEMP(LU) or equivalent qualification or experience in a field of relevance in water resource management.

WATR403-21S2 (C) Semester 2*Fieldwork is required.***WATR 404 Special Topic**

15 Points 0.1250 EFTS

Special Topic in Water Resource Management, in which a specific course of study will be developed to suit student needs. Permission to enrol is required from the WRM Programme Director, to be granted pending an appropriate course of study developed by a nominated supervisor, in consultation with the student.

P: Subject to approval of Director, WCFM

WATR404-20SU2 (C) Summer (Nov 20)**WATR 405 Research and Communication Methods**

15 Points 0.1250 EFTS

This course will convey the type of research undertaken to solve water resource management problems, and how to communicate research results and information effectively in different forums and to different audiences. Topics include: literature search and analysis, research hypothesis development, proposal preparation, research programme design, ethical, cost and health and safety considerations, and effective techniques for oral and written communication.

WATR405-21S1 (C) Semester 1**WATR 690 MWaterRM Thesis**

120 Points 1.0000 EFTS

Research thesis on a topic of relevance to Water Resource Management.

P: Subject to the approval by the Director of Waterways Centre

WATR690-21A (C) Starts Anytime*Part-time enrolment (0.65 EFTS) is available on approval.***WATR 790 Water Resource Management PhD**

120 Points 1.0000 EFTS

P: Subject to approval of the Director of the Waterways Centre

WATR790-21A (C) Starts Anytime*Part-time enrolment (0.65 EFTS) is available on approval. *From 1 January 2008, international students who are residing in New Zealand on a NZ Immigration Study Visa pay the Domestic Fee for this course. International fees apply for all other courses.*

Writing

School of Humanities and Creative Arts

WRIT 101 Writing for Academic Success

15 Points 0.1250 EFTS

Writing for Academic Success fosters the capacity for analytical thought about texts and language. The course also provides training in the writing of clear and effective prose, inculcates awareness of crucial structural and rhetorical features of expository writing, and encourages the application of that awareness to writing in a range of academic and professional contexts.

R: ENGL 117

WRIT101-21S1 (C) Semester 1**WRIT101-21S2 (C) Semester 2**

Tāura | Postgraduate

Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.

WRIT 401 Advanced Reading and Writing

30 Points 0.2500 EFTS

This course teaches students to develop advanced writing skills in a range of genres and styles through exposure to research on writing and through the critical analysis of models of excellent writing.

P: Entry is subject to approval of the Head of Department.

RP: A Bachelor's degree (with at least a B average in 300-level courses) in any subject in which writing comprises a significant part of the assessment

WRIT401-21S1 (C) Semester 1**WRIT 402 Professional Writing**

30 Points 0.2500 EFTS

This course will develop students' capacity to produce professional writing according to a range of practices, within a variety of contexts and genres, and in response to the needs and expectations of diverse audience groups.

P: Entry is subject to approval of the Head of Department.

RP: A Bachelor's degree (with at least a B average in 300-level courses) in any subject in which writing comprises a significant part of the assessment

WRIT402-21S2 (C) Semester 2**WRIT 403 Creative Writing**

30 Points 0.2500 EFTS

This course will develop students' capacity to produce creative writing according to a range of practices, within a variety of contexts and genres, and in response to the needs and expectations of diverse audience groups.

P: Entry is subject to approval of the Head of Department.

RP: A Bachelor's degree (with at least a B average in 300-level courses) in any subject in which writing comprises a significant part of the assessment

WRIT403-21S2 (C) Semester 2**WRIT 680 Extended Writing Project**

60 Points 0.5000 EFTS

WRIT680 comprises a single extended writing project, supervised by a staff member of the English Department. The size of the project will normally approximate to 20,000 words of prose, 15-20 pages of poetry, or 30-40 pages of dramatic script.

P: Entry is subject to approval of the Head of Department.

RP: A Bachelor's degree (with at least a B average in 300-level courses) in any subject in which writing comprises a significant part of the assessment

WRIT680-21A (C) Starts Anytime

Youth and Community Leadership

*School of Educational Studies and Leadership***YACL 101 Introduction to Youth Leadership: Leading the Self**

15 Points 0.1250 EFTS

What is the role of 'the self' in youth and community leadership? What are the personal dispositions required for youth and community leadership and how might these be nurtured within, for and by the self, and/or by others? In this course, students will explore self-leadership from contemporary psychological, philosophical, cultural, and/or any other theoretical perspective/s relevant to their situation and to contemporary Aotearoa. Kaupapa Māori approaches will be explored, as part of which students will be required to have experienced a stay on the noho marae (or alternative).

YACL101-21S1 (C) Semester 1**YACL101-21S1 (D) Semester 1****YACL 201 Social Leadership: Leading with Others**

15 Points 0.1250 EFTS

Social leadership - leading with others - is a non-hierarchical event, which mobilizes a group towards a shared objective. In this course, students will explore the dynamics of collaboration and social capital, and their implications for leadership. Theories of group leadership, problem-solving styles and the potential of 'eco-leadership' will be surveyed and critiqued. In this course, students will reflect on and trace their participation as members of various communities: whānau, community, iwi, professional, social and so on. The course draws on the taonga of bicultural Aotearoa to consider the strengths of indigenous leadership and its resonance with and insights for community leadership globally.

P: YACL 101

YACL201-21S2 (C) Semester 2**YACL201-21S2 (D) Semester 2****YACL 301 Civic Leadership: Leading for Change**

15 Points 0.1250 EFTS

In this course, students will learn the necessary research skills, as well as digital, ethical and cultural considerations, to explore the background of an issue or challenge they see for youth and/or their community, hapu, or iwi. These may include issues of social justice, equity, sustainability, positive development, policy, (global) citizenship and others. Culturally responsive approaches to gathering evidence drawing on the braided rivers model (Macfarlane, Macfarlane & Gillon 2015) will guide this course. Students will develop an action plan of how to address their chosen topic, measure the effectiveness and impact of their actions, and to write a proposal that reflects all relevant aspects.

P: YACL 101 and YACL 201

YACL301-21S1 (C) Semester 1**YACL301-21S1 (D) Semester 1****YACL 302 Leadership Project: Implementing Change**

15 Points 0.1250 EFTS

In this course, students will take action to address an issue of concern they investigated in the previous course YACL301. The developed proposal for change is enacted in this course, displaying leadership through change for youth and/or communities, such as whānau, hapu, iwi. Students are encouraged to work in small interest groups, within and beyond the class group, on a local, national or international issue, document their progress and experiences, and report on the actions taken and the effect their actions had. Emphasis is placed on respectful and considerate engagement and practice with affected communities in a culturally responsive manner through recognition of the Treaty of Waitangi principles.

P: YACL 301

YACL302-21S2 (C) Semester 2**YACL302-21S2 (D) Semester 2**

Zoology

School of Biological Sciences

Note: Postgraduate courses may be subject to change. For up-to-date information, students are advised to check www.canterbury.ac.nz/courses or consult the relevant School/Department.

ZOOL 480 Research Project

30 Points 0.2500 EFTS

A written report on a research project approved by the Head of Department. The report must be completed and presented to the Registrar by 1 November in the year in which the student presents the courses selected from BIOL401-409, BIOL430-433, BIOL450-452, BIOL470-476, BIOL490.

P: Subject to approval of the Head of School.

EQ: ZOOL 471

ZOOL480-21W (C) Whole Year (S1 and S2)**ZOOL 690 MSc Thesis**

120 Points 1.0000 EFTS

P: Subject to approval of the Head of School.

ZOOL690-21A (C) Starts Anytime

Part-time enrolment (0.65 EFTS) is available on approval.

ZOOL 790 Zoology PhD

120 Points 1.0000 EFTS

P: Subject to approval of the Head of School.

ZOOL790-21A (C) Starts Anytime

*Part-time enrolment (0.65 EFTS) is available on approval. *From 1 January 2008, international students who are residing in New Zealand on a NZ Immigration Study Visa pay the Domestic Fee for this course. International fees apply for all other courses.*

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