

Sciences

2012

POSTGRADUATE COURSEWORK PROGRAMS

“The Masters taught me practical ways to integrate sustainability into business models and projects. I have since developed sustainable transport infrastructure and contributed to South Australia’s Greenhouse Strategy—projects that will benefit our future generations.

Ben Leonello
Strategic Sustainability Manager, InfraPlan
Master of Sustainability



Sciences

WELCOME FROM THE EXECUTIVE DEAN



A postgraduate science qualification from the University of Adelaide is your passport to real personal achievement.

The University of Adelaide is one of Australia's most respected and prestigious universities and has a global reputation for research and education excellence. As a respected member of the Group of Eight (Go8), the University's global reputation is evidenced by its consistent ranking in the top 1% of universities worldwide.

The Faculty of Sciences offers postgraduate coursework programs across a variety of applied and specialised scientific fields. Our program offering reflects the Faculty's major research strengths, and spans disciplines including agriculture, biotechnology, geology, chemistry, space science, animal and veterinary science, physics and sustainability.

Underpinning the excellence of our programs is the integration of our cutting-edge research into the teaching curriculum. As a graduate, you will be equipped with the up-to-date knowledge and skills required to meet the challenges of your rapidly changing field.

Through your postgraduate study you will also benefit from the Faculty's extensive collaborations with industry at a local, national and international level, and the support that the Faculty receives from industry and government funding agencies.

Whatever your motivation for undertaking postgraduate study, we are committed to supporting you to succeed in your personal goals.

I encourage you to take the next step and find out more about how you can succeed with a postgraduate qualification in science from the University of Adelaide.

Professor Robert Hill
Executive Dean, Faculty of Sciences



“I graduated in law, but after managing a Tsunami relief program in Indonesia I became passionate about climate change. The Master of Sustainability has given me the opportunity to participate in sustainable rural development in Thailand and taught me diverse international environment and governance issues. I'm proud to make an impact in this critical area.”

Amalia Sosrodiredjo
Master of Sustainability



Website: www.sciences.adelaide.edu.au/pgprograms/coursework

Phone: 61 8 8313 5673

The University of Adelaide combines internationally acclaimed innovation in research and teaching to give you the skills to take a leading role in shaping the future.

The Faculty of Sciences is committed to excellence in teaching and research. Members of the Faculty collaborate extensively with local, national and international organisations, and their research and teaching activities are supported by industry, government and national funding agencies.

The Faculty offers postgraduate coursework programs across a range of applied and specialised fields in science, from physics to agriculture, biotechnology, geology, geosciences, space science and sustainability to name only a few.

Our graduates enter the workplace equipped with the skills necessary to meet the challenges of a rapidly changing and increasingly knowledge-based society. Students develop skills in problem solving, critical thinking, analytical methods, scientific

communication, as well as a high level of expertise in their chosen scientific pursuit.

Major specialist research and teaching centres in which the Faculty of Sciences participates include:

- Adelaide Proteomics Centre
- Adelaide University Node of the Australian Research Council (ARC)
- Centre of Excellence for Antimatter-Matter Studies
- ARC Centre of Excellence in Plant Cell Walls
- ARC Special Research Centre for the Subatomic Structure of Matter
- Centre for Complex Systems & the Structure of Matter
- Centre of Expertise in Photonics
- Environment Institute:
 - Australian Centre for Ancient DNA
 - Australian Centre for Evolutionary Biology and Biodiversity
 - Centre for Energy Technology
 - Landscape Futures Program
 - Marine Biology Program
 - Water Research Centre
 - Climate and Ecology

- Australian Centre for Plant Functional Genomics (ACPFPG)
- Biotechnology Centre of Excellence
- Institute for Mineral and Energy Resources:
 - Centre for Tectonics, Resources and Exploration (TRaX)
- Institute for Photonics and Advanced Sensing
- South Australian Centre of Excellence for Geothermal Research
- Special Research Centre for the Molecular Genetics of Development
- Waite Research Institute

The Faculty has strong research links with many Cooperative Research Centres (CRC) including:

- Australian Centre for International Agricultural Research (ACIAR)
- Australian Seafood
- Biological Control of Pest Animals, Cattle and Beef Quality
- Deep Exploration Technologies
- Environmental Biotechnology
- Future Farm Industries
- Pork Industry
- Poultry and Seafood



“As well as furthering my scientific knowledge, the University of Adelaide has helped me to develop the professional networks that are essential for a successful science-based career.”

Megan Wright
Molecular Sciences

We also have strong links with:

- Australian Grain Technologies Pty Ltd (the largest wheat breeding company in the Southern hemisphere)
- Commonwealth Scientific and Industrial Research Organisation (CSIRO)
- Department of Environment and Natural Resources (DENR)
- National Wine Innovation Cluster
- Pig and Poultry Production Institute
- South Australian Research Development Institute (SARDI)
- South Australian Museum
- ZoosSA.

Indicative full-time fee

Some postgraduate coursework programs require you to pay the full fee while others have CSP or Commonwealth Supported Places.

If you apply to uni and are accepted into a Commonwealth Supported Place:

- the Commonwealth Government contributes to the cost of your courses
- you pay a Student Contribution towards the cost of your courses
- you may be eligible for HECS-HELP assistance to pay your student contribution.

To find out more about the cost of your degree, please visit: www.adelaide.edu.au/student/finance/commonwealth

Note: Where fees are noted as Commonwealth Supported Places (CSP) on the follow pages, browse programs at www.adelaide.edu.au/programs for further fee information.

Online delivery

In response to the demand for high quality, flexible learning, the University of Adelaide is introducing an online option for a number of our programs. Online program delivery offers the same rigorous curriculum as our face-to-face study option while helping you to achieve the important balance between work, life and study.

Select Business, Innovation and Entrepreneurship and Project Management programs are currently available online, but in time more postgraduate programs will be added to ensure that no matter where you are located, you can study at the University of Adelaide.

BIOTECHNOLOGY—BIOMEDICAL

SATAC codes:

Masters: 3CM029
Grad Dip: 3GD017
Grad Cert: 3GC014

Duration (years full-time):

Masters: 2
Grad Dip: 1
Grad Cert: 0.5

Campus: North Terrace

Intake: February

Study mode: internal, full-/part-time

Indicative full-time fee (p/a): \$20,500

School: Molecular & Biomedical Science

Email: faculty.sciences@adelaide.edu.au

Program Coordinator: Antonio Focareta

Prerequisites/entry criteria: Degree

Program overview: The program is experimental and exposes students to individual technology platforms as well as developing competitive laboratory and research skills. Students will also be exposed to:

- the many interlinked issues in contemporary biotechnology research
- translation and development including compliance and regulatory issues
- design-in/fail early-fail cheap strategies
- project management and team skill development and exploitation.

Assessment: Exams, written and oral assignments and investigative projects; includes both individual and group participation.

Likely careers: Biotechnology is one of the fastest growing global industries, helping to develop better methods of diagnosis and treatment of a wide variety of diseases. There are very strong career opportunities for graduates, particularly those who possess strong laboratory skills combined with an understanding of research and product development.

Applications: Apply online via SATAC's GradStart website from 8 August 2011; closing dates vary and are indicated on the SATAC website: www.satac.edu.au/uniweb

Program structure

Core courses*

- Foundation Skills—Research Communication
- Foundation Skills—Research Design
- Entrepreneurship and Innovation
- Technology Platforms and Research Techniques
- Advanced Technology Platforms and Research Techniques

Elective courses

Students can choose up to 12 units from School of Molecular & Biomedical Science (SMBS) elective courses (each course = 3 units) and up to 6 units from non-SMBS elective courses.

SMBS elective courses# +:

- Frontiers—Drug Discovery and Development
- Frontiers—Stem Cells and Advanced Tissue Culture
- Frontiers—Biomarkers, Detection and Diagnostics
- Frontiers—Molecular Microbiology and Vaccines
- Frontiers—Bioinformatics and systems modelling

Non-SMBS elective courses# +:

- Research Processes
- Technology management and transfer (ECIC, Faculty of ECMS)
- Legal Issues of the commercialisation process (ECIC, Faculty of ECMS)
- Internationalisation of technology (ECIC, Faculty of ECMS)
- Managing risk (ECIC, Faculty of ECMS)
- Design of randomised controlled trials (Discipline of Public Health, Faculty of Health Science)
- Applications of Plant Biotechnology in Health and Nutrition (AFW, Faculty of Sciences)

Research#

Independent research project in the area of Biotechnology (12 units), along with research proposal including literature review and business case development (6 units)

* All students complete these courses
Masters courses
+ Diploma courses

CARBON MANAGEMENT

SATAC codes:

Masters: 3CM119
Grad Dip: 3GD057
Grad Cert: 3GC050

Duration (years full-time):

Masters: 2
Grad Dip: 1
Grad Cert: 0.5

Campus: North Terrace

Intake: Feb and Jul

Study mode: internal, full-/part-time

Indicative full-time fee (p/a): \$25,500

School: Earth & Environmental Sciences

Email: faculty.sciences@adelaide.edu.au

Program Coordinator: Jackie Venning

Prerequisites/entry criteria: Degree

Program overview: The planet is becoming hotter and much of the observed warming is attributed to increases in greenhouse gases in the atmosphere, the most significant of which is carbon dioxide. Regardless of our efforts to reduce greenhouse gas emissions over the next few decades some level of climate change is now thought inevitable. However the extent and severity of the changes are still uncertain. This multi-disciplinary coursework

program explores the science of climate change, anticipated climate change trends and their impacts, and drivers for the development of a low carbon economy. The program integrates courses from four Faculties spanning the themes business and resource management. It covers policy and legislative frameworks for reduction of carbon emissions and the technical and economic challenges to achieve carbon neutrality.

Likely careers: Climate change is of global concern and increasingly there is focus on reducing carbon emissions. Growing awareness of the benefits of improved carbon management for organisations is being driven by the desire to reduce input costs, build reputation, improve market opportunities and reduce exposure to risk. Organisations are building teams to manage their climate change impacts and strategies (including low carbon emissions strategies) and develop adaptive strategies. It is a newly emerging and rapidly developing area that offers enormous opportunities for career development in government and business organisations.

Applications: Apply online via SATAC's GradStart website from 8 August 2011; closing dates vary and are indicated on the SATAC website: www.satac.edu.au/uniweb

Program structure

Core courses

- Climate Change: Past, Present and Future*
- The Economics of Climate Change*
- Thinking Critically about Global Warming*
- Business and Carbon Management*
or Carbon Impact and Strategy*

Electives# +

Students can choose electives from areas of Business and Resource Management, plus other electives from postgraduate programs offered by the Faculty with prior approval of the Program Coordinator.

Research#

Research project in an area of research spanning the science of climate change; the carbon economy; or aspects of carbon management (15 units).

* All students complete these courses
Masters courses
+ Diploma courses



“Through my study I’m learning from world-class professors and lecturers whose knowledge broadens my thinking and is helping me to achieve my personal goals.

Sim Lim
Molecular Sciences

GLOBAL FOOD AND AGRICULTURAL BUSINESS

SATAC codes:
Masters: 3CM121
Grad Dip: 3GD059
Grad Cert: 3GC052

Duration (years full-time):
Masters: 2
Grad Dip: 1
Grad Cert: 0.5

Campuses: North Terrace and Waite

Intake: Feb and Jul

Study mode: Internal, full-/part-time

Indicative full-time fee (p/a): \$20,000

School: Agriculture, Food & Wine

Email: faculty.sciences@adelaide.edu.au

Program Coordinators: Professor Randy Stringer and Dr Wendy Umberger

Prerequisites/entry criteria: Degree. Successful applicants without BEcon from the University of Adelaide or equivalent will receive a packaged offer to Grad Cert and Masters.

Program overview: The Global Food and Agricultural Business (GFAB) postgraduate programs enable students to develop the conceptual and practical skills necessary for careers in food businesses and agribusiness. The selection of courses enable students to gain fundamental competencies, while at the same time providing the flexibility to tailor their program to their individual

background and career objectives. For example, students may focus on specific interests from value chain management or marketing to natural resource issues or agricultural policy analysis.

Assessment: Exams, written and oral assignments and investigative projects; includes both group and individual participation

Likely careers: Students are trained for careers in the increasingly complex and diverse local, national, and global value chain networks, including food retailers, food processors, banks and financial agencies, agricultural consultancy services, research centres and input suppliers, in both government and non-government organisations.

Applications: Apply online via SATAC’s GradStart website from 8 August 2011; closing dates vary and are indicated on the SATAC website: www.satac.edu.au/uniweb

Program structure

Core courses*

- Global Food and Agricultural Markets
- Global Food and Agricultural Policy Analysis
- Trends and Issues in the World Food System

Plus three core courses chosen from:

- Accounting Concepts and Methods
- Agriculture and Food in International Trade

- Business Communications
- Economic Principles
- International Entrepreneurship and Innovation
- Marketing Principles
- Management Practice
- Principles of Finance
- Quantitative Methods
- Theory and Practice of International Business

Electives# +

Students can choose electives from relevant areas including: Agribusiness, Business, Economics, International Business, Trade, Technology Communications and Wine Marketing.

Additional electives from postgraduate programs offered by the Faculty may require approval from the Program Coordinator.

For a full list of electives available, please refer to the program rules in the University Calendar: www.adelaide.edu.au/calendar

Research#

- Global Food & Agricultural Business Research Project

* All students complete these courses

Masters courses

+ Diploma courses



OENOLOGY

SATAC codes:

Masters: 3CM079
 Grad Dip: 3GD044
 Grad Cert: 3GC035

Duration (years full-time):

Masters: 1.5
 Grad Dip: 1
 Grad Cert: 0.5

Campus: Waite

Intake: Feb and Jul

Study mode: internal, full-/part-time

Indicative full-time fee (p/a): \$25,500

School: Agriculture, Food & Wine

Email: faculty.sciences@adelaide.edu.au

Program Coordinator: Susan Bastian

Prerequisites/entry criteria: A completed three-year Bachelors degree in Science or Engineering; or, a completed Bachelors degree in another discipline plus successful completion of first year University Chemistry. Two years relevant work experience is also required.

Program overview: The wine education programs have an international reputation for excellence. Utilising state-of-the-art facilities at the Waite campus and the National Wine Centre, the Masters program provides advanced knowledge in all

aspects of modern winemaking. The program employs an integrated 'from grape to the glass' approach, covering the global marketing of wine and an understanding of viticulture. The Waite campus is co-located with a number of research partners, providing a stimulating and unique environment for training, exposing candidates to the latest technologies and enabling them to learn from leaders in their field.

Assessment: Assignments, practical reports, final exam

Likely careers: Well-paid career opportunities exist in the wine industry, contributing to areas including the direct wine making operations and the management of the winery.

Applications: Apply online via SATAC's GradStart website from 8 August 2011; closing dates vary and are indicated on the SATAC website: www.satac.edu.au/uniweb

Program structure

Core courses

- Advances in Oenology[#]
- Cellar and Winery Waste Management^{+ #}
- Introductory Winemaking^{*}
- Sensory Studies^{*}

- Stabilisation and Clarification^{*}
- Viticultural Science^{+ #}
- Winemaking at Vintage^{*}

Elective courses

- Advances in Oenology^{+ #}
- Distillation, Fortified and Sparkling Wine Making^{+ #}
- Fermentation Technology[#]
- Grape Industry Practice, Policy and Communication[#]
- Industry Experience (Oenology)^{+ #}
- Technical French (Oenology)[#]
- Viticultural Engineering and Irrigation[#]
- Viticultural Methods and Procedures[#]
- Viticultural Science^{+ #}
- Wine and Food Marketing Principles[#]
- Wine Packaging and Quality Management[#]
- Winery Engineering^{+ #}
- Project F (ANR)[#]

Plus other electives from postgraduate programs offered by the Faculty with prior approval of the Program Coordinator.

** All students complete these courses
 + Diploma courses
 # Masters courses*

PHYSICS

SATAC codes:

Master of Science: various—refer to individual programs in Program Information Leaflets or at www.adelaide.edu.au/programfinder/pgcw/sciences;

Grad Dip: 3GD045

Grad Cert: 3GC038

Specialisations:

Applied Physics; Astrophysics; Atmospheric Physics; Optics and Lasers; Theoretical Physics

Duration (years full-time):

Master of Science: 1.5

Grad Dip: 1

Grad Cert: 0.5

Campus: North Terrace

Intake: Feb and Jul

Study mode: internal, full-/part-time

Indicative full-time fee (p/a): \$20,500

School: Chemistry & Physics

Email: faculty.sciences@adelaide.edu.au

Program Coordinator: Rod Crewther

Prerequisites/entry criteria: A completed Honours degree in Physics or a completed Bachelors degree with a major sequence in Physics and appropriate professional experience.

Program overview: Programs are tailored to an individual's background, interests and career objectives. Students will obtain and extend fundamental competencies in Physics, and study the latest advances in their specialisation under the supervision of academic and research staff who are internationally recognised for their research.

Assessment: Assignments, exams, short project (Diploma, Masters), long project (Masters)

Likely careers: Graduates can choose from a broad range of careers, for example in optics and laser industries, defence industry, telecommunications, meteorology, environmental physics, space and ionospheric physics, geophysics, merchant banking, teaching and bioinformatics.

Applications: Apply online via SATAC's GradStart website from 8 August 2011; closing dates vary and are indicated on the SATAC website: www.satac.edu.au/uniweb

Applicants who have not studied in an Australian institution within the last 10 years must summarise in their own words the syllabus (including laboratory) for each of the most advanced physics and mathematics subjects on their academic record (up to four pages overall). Where available, curriculum documents may be appended to the summary. Documentation should be sent to the Faculty of Sciences office.

Program structure

Core courses

- Advanced Astrophysics⁴
- Advanced Atmospheric and Environmental Physics⁴
- Advanced Electromagnetism⁴
- Experimental Methods¹
- Gauge Theory²
- General Relativity⁴
- Laser Physics and Non-linear Optics³
- Nuclear and Radiation Physics³
- Nuclear Theory and Particle Physics^{4*}

- Quantum Field Theory¹
- Relativistic Quantum Mechanics and Particle Physics¹
- Statistical Mechanics and Many Body Theory^{4*}

Elective courses

- Advanced Dynamics and Relativity¹
- Atmospheric and Astrophysics¹
- Computational Physics²
- Electromagnetism¹
- Experimental Physics²
- Optics and Photonics²
- Quantum Mechanics^{1,2}
- Statistical Mechanics¹

Students can also choose from a range of offerings from other Coursework Masters degrees in the Faculty of Sciences or the Faculty of Engineering, Computer and Mathematical Sciences to suit interests and strengths.

Advanced Topic

- Advanced Topic in Physics (6 units)[#]

Research

- Research Project (12 units)[#]
- Diploma Project (6 units)⁺

1 Semester 1

2 Semester 2

3 Usually taught semester 1 but subject to change

4 Usually taught semester 2 but subject to change

* Not offered every year

Masters courses

+ Diploma courses

PLANT BIOTECHNOLOGY

SATAC codes:

Masters: 2

Grad Dip: 1

Grad Cert: 0.5

Duration (years full-time):

Masters: 3CM029

Grad Dip: 3GD017

Grad Cert: 3GC014

Campus: Waite

Intake: Feb

Study mode: internal, full-/part-time

Indicative full-time fee (p/a): \$20,500

School: Agriculture, Food & Wine

Email: faculty.sciences@adelaide.edu.au

Program Coordinator: Amanda Able

Prerequisites/entry criteria: Degree

Program overview: Plant Biotechnology has a strong emphasis on understanding plant form and function from molecular, genetic and bio-

chemical perspectives. The program extends this understanding from fundamental science to applications in plant production, human and animal health, biofuels, and ultimately to commercialisation of plant biotechnology. The program is designed as a series of short courses, integrating scientific communication, critical thinking, problem solving and bioinformatics into the curriculum.

Assessment: Exams, written and oral assignments and investigative projects; includes both individual and group participation.

Likely careers: Biotechnology offers careers using advanced technologies that will transform food production and environmental management. Career opportunities exist in government departments, universities and private companies in research and development, advisory and consultancy positions.

Applications: Apply online via SATAC's GradStart website from 8 August 2011; closing dates vary and are indicated on the SATAC website: www.satac.edu.au/uniweb

Program structure

- Foundations of Plant Biotechnology*
- Molecular Plant Breeding*
- Plant Genomics*
- Techniques in Plant Biotechnology+[#]
- Applications of Plant Biotechnology in Plant Production+[#]
- Applications of Plant Biotechnology in Health and Nutrition+[#]
- Management, Commercialisation and Regulation in Plant Biotech+[#]
- Research Project[#]

* All students complete these courses

+ Diploma courses

Masters courses

SUSTAINABILITY

SATAC codes:

Masters (Advanced): 3CM116
Masters: 3CM115
Grad Dip: 3GD055
Grad Cert: 3GC049

Duration (years full-time):

Masters (Advanced): 2
Masters: 1.5
Grad Dip: 1
Grad Cert: 0.5

Campus: North Terrace

Intake: Feb and Jul

Study mode: internal, full-/part-time

Indicative full-time fee (p/a): \$25,500

School: Earth & Environmental Sciences

Email: faculty.sciences@adelaide.edu.au

Program Coordinator: Jackie Venning

Prerequisites/entry criteria: Degree

Program overview: This is a multidisciplinary program drawing together a wide range of courses in the area of sustainability. The programs address the complex challenges of the future such as sustainability, climate change and sustainable resource management. The programs draw on courses from all Faculties of the University spanning themes of governance, technology and innovation, social and corporate responsibility, science and the environment and economics. It explores key issues for sustainable futures including climate change, low carbon technologies, integrating sustainability and community engagement.

Assessment: Combination of verbal presentations, written assignments, individual or group projects and exams

Likely careers: Professional positions are available in government, business and organisations wishing to develop and implement plans and practices that will achieve sustainable outcomes.

Applications: Apply online via SATAC's GradStart website from 8 August 2011; closing dates vary and are indicated on the SATAC website: www.satac.edu.au/uniweb

Program structure

Core course

- Sustainable Development: Concepts and Applications

Elective courses

Students can choose from a range of offerings to suit interests and strengths.

Research

Research project in an area spanning governance, technology and innovation, social responsibility, science and the environment and/or economic issues relevant sustainability.

VETERINARY MEDICINE

SATAC code: 3CD001

Program level: Masters

Duration (years full-time): 3

Campus: Roseworthy

Intake: February

Study mode: internal, full-/part-time

Indicative full-time fee (p/a): CSP

School: Animal & Veterinary Science

Email: faculty.sciences@adelaide.edu.au

Program Coordinator: Peter Cockcroft

Prerequisites/entry criteria: A completed Bachelor of Science (Pre-Veterinary) or equivalent recognised degree and completion of 12 weeks animal husbandry extramural studies. Applicants will be ranked on academic performance.

Program overview: This is a three year degree in clinical veterinary science that when successfully completed will allow registration of the graduate as a veterinarian. The program is at the Masters by coursework level. Most students will enter this program after completion of the Bachelor of Science (Pre-Veterinary) program at the University of Adelaide. However, students with a recognised pre-veterinary or veterinary degree may also be eligible for entry.

Assessment: Varies with individual courses and includes a combination of verbal presentations, written assignments, individual or group projects and exams

Professional accreditation: The Doctor of Veterinary Medicine program aims to allow registration as a veterinarian in Australasia. Graduates may also advance to research training via higher degrees by research or to clinical specialty training via the residency and specialty examination route.

Likely careers: Accreditation of the program cannot happen fully until 2013 when the first cohort are in their final year and another full accreditation visit occurs. Registration of students can only occur after accreditation of the program has occurred. Graduates may also advance to research training via the Master of Science and/or PhD route or to clinical specialty training via the residency and specialty examination route.

Applications: Apply online via SATAC's GradStart website from 8 August 2011; closing dates vary and are indicated on the SATAC website: www.satac.edu.au/uniweb

Program structure

In addition to the following courses and research, there is a requirement for a further fourteen weeks of extramural practical work during the program that must be completed prior to the beginning of the final year of study.

Core courses

- Clinical Research Project
- Clinical Rotations
- DVM Professional Skills
- Equine Practice
- Intensive Production Medicine
- Ruminant Animal Practice
- Small Animal Practice
- Veterinary Pathology
- Veterinary Practice Fundamentals
- Veterinary Public Health
- Wildlife and Conservation Practice

Research

Students interested in research will be able to undertake a clinical-based research project within the core course Clinical Research Project.

VITICULTURE

SATAC codes:

Masters: 3CM100
Grad Dip: 3GD052
Grad Cert: 3GC046

Duration (years full-time):

Masters: 1.5
Grad Dip: 1
Grad Cert: 0.5

Campus: Waite

Intake: Feb and July

Study mode: internal, full-/part-time

Indicative full-time fee (p/a): \$25,500

School: Agriculture, Food & Wine

Email: faculty.sciences@adelaide.edu.au

Program Coordinator: Brent Kaiser

Prerequisites/entry criteria: Masters: A completed three-year Bachelors degree or equivalent and at least two years relevant work experience; Grad Dip/Cert: Degree

Program overview: The Viticulture and Wine education programs have an international reputation for excellence. The Waite campus houses state-of-the-art facilities including its own vineyard and Hickinbotham Roseworthy

Wine Science Laboratory. The Masters provides advanced knowledge in all aspects of modern grape-growing including: advanced production techniques, vineyard establishment, mineral nutrition, advanced vine physiology and biotechnology, pest and disease control, efficient water use strategies, and the engineering of production and irrigation. Students may also gain a basic working knowledge of wine production, and some aspects of the global marketing of wine, which reflects trends in the wine industry towards an integrated approach 'from grape to glass'.

Assessment: Combination of written assignments, individual or group projects and exams

Likely careers: Well-paid career opportunities exist in the grape and wine industry within Australia and elsewhere. Graduates will be qualified to manage a vineyard, direct and carry out vineyard operations, liaise with winemakers to produce fruit for a designated wine style and work in technical positions.

Applications: Apply online via SATAC's GradStart website from 8 August 2011; closing dates vary and are indicated on the SATAC website: www.satac.edu.au/uniweb

Program structure

Core courses

- Viticultural Methods and Procedures
- Viticultural Science

Elective courses

- Advances in Viticultural Sciences*
- Integrated Pest Management+ ^
- Introductory Winemaking+ ^
- Mineral Nutrition of Plants+ ^
- Sensory Studies+ ^
- Topics in Soil and Land Systems+ ^
- Viticultural Engineering & Irrigation*
- Wine and Food Marketing Principles^

Plus other electives from postgraduate programs offered by the Faculty, subject to approval by Program Coordinator are offered for Masters and the Graduate Diploma.

* All students

+ Diploma courses

^ Certificate courses

WINE BUSINESS

SATAC codes:

Masters: 3CM101
Grad Dip: 3GD053
Grad Cert: 3GC047

Duration (years full-time):

Masters: 1.5
Grad Dip: 1
Grad Cert: 0.5

Campus: Waite

Intake: Feb or Jul (part-time studies only)

Study mode: internal, full-/part-time

Indicative full-time fee (p/a): \$20,000

School: Agriculture, Food & Wine

Email: faculty.sciences@adelaide.edu.au

Program Coordinator: Elton Li

Prerequisites/entry criteria:

Masters: A completed three-year Bachelors degree or equivalent and at least two years relevant work experience
Grad Dip/Cert: Degree

Program overview: Students learn to combine cutting-edge and world best-practice wine marketing know-how with a working knowledge and skills in both winemaking and viticulture, thus incorporating the entire wine value chain. This is what wine industries worldwide expect wine business professionals to know and understand. This program provides wine business and

marketing education customised to the particular demands of the global wine trade, the unique features of the domestic and overseas wine industries, and wine as a product. Wine Business graduates possess professional skills, which enable them to implement wine business and marketing principles, theories, practices and operations in the wine industry anywhere in the world.

Assessment: Varies by course: includes exams, written research projects and reports, group projects, and individual participation in classrooms

Likely careers: Well-paid career opportunities exist in wine business, and marketing or management positions internationally.

Applications: Apply online via SATAC's GradStart website from 8 August 2011; closing dates vary and are indicated on the SATAC website: www.satac.edu.au/uniweb

Program structure

Core courses

- Advanced Wine Marketing#
- Global Wine Market*
- Vineyard and Winery Operations# +
- Winery Business Management*

Elective courses

- Advertising and Promotion
- Applied Management Science

- Applied Marketing Research
- Consumer Behavioural Analysis
- Database Marketing for Wine and Food Business
- Food Marketing
- International Marketing of Wine and Agricultural Products
- International Wine Law
- Internet Marketing and E-Commerce
- Introduction to Managerial and Financial Accounting
- Introductory Grape and Wine Knowledge
- Legal Issues in Wine Marketing
- Macroeconomic Essentials for Wine and Food Business
- Microeconomic Principles
- Research Methodology and Methods
- Strategic Marketing Management
- Vineyard and Winery Operations^
- Wine and Food Marketing Principles
- Wine and Food Tourism and Festivals
- Wine and Society
- Wine Retail and Distribution Management

* All students

Masters courses

+ Diploma courses

^ Certificate courses

DISCLAIMER

With the aim of continual improvement, the University of Adelaide is committed to regular reviews of the courses and programs it offers to students. As a result of this, the specific courses available to students may vary from year to year. Updated information on the programs of study for specific awards and courses available can be found online at: www.adelaide.edu.au/programs

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www.adelaide.edu.au/programs/pgcw.html

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