Macquarie University, Sydney, Australia

2010 Undergraduate Programs

Macquarie University has recently completed a review and renewal of our undergraduate curriculum. The goal of the curriculum renewal is to offer students a comprehensive learning experience that combines academic rigour, practical vocational skills and opportunities for social development.

Broader educational experience

The new curriculum will enhance your learning experience and allow you to study subjects of interest both inside and outside your academic department. It allows for double majors and double degrees and you are strongly encouraged to use this flexibility to broaden your interests. Through our People and Planet units you will meet people who study outside your discipline area and expand your professional and social network.

The new curriculum will ensure that you are better equipped with the skills required to compete in the global economy, by providing you with a broader academic and social experience at Macquarie University.

People and Planet units

From 2010, undergraduate students will take one People and one Planet unit.

**People units** will develop your understanding of the social world and your role as a global citizen, through learning about the challenges of contemporary society. For example: A student studying Engineering with an interest in working overseas might choose to study “Language, Culture and Communication” as their ‘People’ unit.

**Planet units** will help you to understand the physical world, and the issues facing our planet. Through these units you will acquire the scientific and IT literacy needed to make a difference. For example: A Human Geography student might choose “Global Legal Frameworks for a Sustainable Planet” as their ‘Planet’ unit.

It is anticipated that a further exciting element of ‘Participation’ will be implemented for students who enrol from 2012 onwards.

<table>
<thead>
<tr>
<th>People units examples</th>
<th>Planet units examples</th>
</tr>
</thead>
<tbody>
<tr>
<td>Human Evolution and Diversity</td>
<td>Accounting and Reporting for the Environment</td>
</tr>
<tr>
<td>Literature and Politics</td>
<td>Archaeology and Society</td>
</tr>
<tr>
<td>Geographies of Global Change</td>
<td>Introduction to Brain, Behaviour and Evolution</td>
</tr>
<tr>
<td>Language, Culture and Communication</td>
<td>Global Legal Frameworks for a Sustainable Planet</td>
</tr>
<tr>
<td>Law, Institutions and People – A Global Perspective</td>
<td>Quantitative Methods in Economics, Business and Finance</td>
</tr>
<tr>
<td>Analysing New Media</td>
<td>Science: Today and Tomorrow</td>
</tr>
<tr>
<td>Social Marketing and Sustainability</td>
<td>Information and Communication Technologies and Education</td>
</tr>
<tr>
<td>Critical thinking</td>
<td>IT and Society</td>
</tr>
<tr>
<td>Migration and Multicultural Studies</td>
<td>Introductory Statistics</td>
</tr>
</tbody>
</table>

For a full list of People and Planet units visit: www.international.mq.edu.au/study/undergraduate/Curriculum2010
Majors

Please note some courses allow a second major which can be from a different faculty or discipline.

**ARTS**

**Ancient History – Egypt and Near East**
The history, society, religions, material culture and languages of ancient Egypt and the Near East.

**Ancient History – Greece, Rome and Late Antiquity**
The history, society, religions, material culture and languages of ancient Greece, Rome and Late Antiquity.

**Anthropology**
Comparative studies of societies and cultural diversity.

**Chinese Studies**
Classes in Mandarin, ranging from absolute beginner to native speakers and understanding of the society, culture and history of China.

**Contemporary Music**
The study of various forms of 20th and 21st Century music encompassing popular, electronic, Indigenous, world, the avant garde and more. There are streams in music production, vocal studies, guitar, and rhythm studies.

**Creative Arts**
A multidisciplinary program for those who want to work in theatre, film, publishing, galleries, museums, funding organisations, regional arts centres and educational institutions.

**Croatian Studies**
Intensive Croatian language teaching and a critical analysis of Croatian literature, history and culture.

**Cultural Studies**
Provides the analytical and creative skills necessary for understanding the ever-changing nature of contemporary culture and daily life, including studies in issues relating to art, media, communication and representation; the practice of everyday life, from shopping to graffiti; the construction and deconstruction of social, cultural and personal identities; as well as the values and ideas shaping national, regional and global cultures.

**Dance**
Includes contemporary dance practice, choreography, music, theatre, history and aesthetics, dance, screen and media, and dance creativity as a final year project.

**English**
Creative writing, children’s literature, Shakespeare and early modern literature, Victorian literature, modernism and postmodernism, literature and film, Australian and postcolonial literatures, feminism and literature, medieval literature, and world literature.

**French Studies**
French language and study of the societies and cultures of the Francophone world.

**Gender Studies**
An interdisciplinary course with core gender studies units and electives from ancient and modern history, anthropology, cultural studies, education, English, geography, law, media, philosophy, psychology, modern languages and sociology.

**German Studies**
Intensive German language teaching and a critical analysis of German literature, history and culture.

**Indigenous Studies**
For students wishing to gain a greater knowledge of Australian and other Indigenous societies and cultures.

**International Communication**
Designed for students who wish to pursue a career in international business, media and policy arenas. Study is structured around major units of International Communication, International Business Writing, Global Media and Knowledge Society, Diplomacy, International Public Relations and Advertising.

**Modern Greek Studies**
Greek language and culture and an understanding of the cultural diversity that defines Australia through a critical analysis of Greek literature and history.

**Modern History**
Provides a rich perspective on the evolution of today’s complex and rapidly evolving world, through research, analysis of evidence and information retrieval, as well as training students in clear writing and communication.

**Philosophy**
Students are trained in the art of philosophical questioning, the construction of philosophical arguments and the evaluation of philosophical beliefs.

**Polish Studies**
For beginners to advanced level, develops an understanding of the Polish language and the history, society and culture of Poland.

**Politics and International Relations**
Introduces political theory, and public policy and different ways of political thinking. Also covers relations among countries, the role of international organisations and foreign policy issues.

**Russian Studies**
Russian language and a strong understanding of the culture, history and society of Russia.

**Sociology**
Focuses on issues such as governing society in civil democracy, the effects of globalisation, the role of media and the arts, the changing nature of work and the relationship between our social and personal lives.

**Spanish and Latin American Studies**
Spanish language and an understanding of the main social, political, economic and cultural issues of Spanish-speaking societies.

**Writing**
Offers study in non-fiction writing (eg. feature writing for magazines, profiles), narrative fiction (eg. short stories, novels), script writing for film and theatre, and poetry.

**BUSINESS AND ECONOMICS**

**Accounting**
Provides training in the collection, measurement and communication of economic information used for planning, reporting and decision making.

**Applied Econometrics**
The application of quantitative techniques to economics used in economic analysis, forecasting, the development and testing of theories and economic models, and policy analysis.

**Business Demographics**
Includes the study of the size, structure and distribution of populations, and how populations change over time due to births, deaths, migration and ageing.

**Commercial Law**
Study of the legal issues in commerce and accounting practice, while providing a solid foundation in relation to the impact of the law on individual rights and general business practice.

**Economics**
Enables students to effectively analyse decision-making by individuals, businesses, government and global organisations.

**Finance**
The study of financial organisations, markets and instruments; their effect on the flow of funds within the economy, and the control of risk.

**Human Resources**
Emphasises the psychology of learning and the human resource management processes and techniques that create and maintain high-performing organisations.

**International Business**
Enables students to consider the implications of business decisions on a global scale as well as for Australian business, with studies in the social sciences.

**Marketing**
Studies include how an organisation identifies and anticipates customers’ needs, then organises resources to ensure that those needs are satisfied in a way that builds long-term, mutually rewarding relationships between the customer and the organisation.

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SCIENCE

Astronomy and Astrophysics
Study of the solar system, stars, galaxies and cosmology. The major also provides a strong background in physics, mathematics and computing.

Biology
Offers study in all levels of biology, from cell and developmental biology, to behaviour, biodiversity, conservation, ecology, genetics, microbiology, morphology and physiology.

Biomolecular Sciences
Based on biochemistry and molecular biology and extends into the fields of genetics, genomics and proteomics, biotechnology, structural and systems biology, and bioinformatics.

Brain Behaviour and Evolution
An integrative approach to the study of behaviour, including that of humans, exploring mechanistic bases as well as the functions and evolution of behaviour.

Chemistry
Study of the science of converting one substance into another and the molecular interpretation of the world around us, with subject areas in analytical chemistry, environmental and physical chemistry, medicinal chemistry, organic and biological chemistry, and protein chemistry.

Climate Science
The comprehensive study of the Earth’s climate system, including the atmosphere, hydrosphere, cryosphere (frozen water), land surface, and biosphere.

Decision Science
Provides practical methods for translating business data into efficiency improvements in resource allocation, supply chains, large projects, queues and inventory systems, how to study and predict markets, how to transact business safely via the internet, and how to identify and work around uncertainty.

Development Studies and Cultural Change
Trains students to critically understand the complexities associated with development, covering topics such as the politics of international aid, social capital, sustainability, media strategies, resettlement, human rights and disaster relief.

Electronics
Develops the knowledge and skills to work with electronic technology in telecommunications, manufacturing, computers, transport, power generation, entertainment, consumer appliances, environmental control and medicine.

Environmental Earth Science
Encompasses all aspects of the environment in which erosion, sediment transport and deposition play a role, whether it be understanding landscape processes, ecological function, environmental health or the distribution and remediation of environmental contaminants.

Environmental Geology
Provides an understanding of surface materials and processes, soils, rock masses and their structure, the flow of water and pollutants through the Earth’s surface materials, and geologic hazards.

Environmental Management
Encompassing social, physical, biophysical, environmental studies and the humanities, this major explores relationships between humans and their environments, and patterns of distribution and consumption of resources that influence sustainable patterns.

Geography
Covers both physical and human geography, providing an integrated understanding across the social and environmental sciences.

Human Geography
A strongly applied focus in matters such as social and community planning, health and health care delivery, population studies, development studies, resource and environment management, public policy development, urban and regional management and geographic information science.

Information Systems
Encompasses both the technical and management aspects of information systems, especially the integration of information systems into core business processes.

Software Technology
Focused on studying algorithms, data structures and the principles of engineering quality software, this major allows students to study areas such as networks, artificial intelligence, databases, computer graphics and web technology.

Mathematics
Provides unique training in abstract reasoning and problem solving with inspiration from physics and astronomy, computing science, biology, environmental science and finance.

Museum Studies
Includes a focus on information management, curatorial practice, exhibition development and public programs for students seeking employment across a diverse range of museums, galleries, collections and other information-based organisations.

Palaeobiology
By studying the fossil record, students learn about the early evolution and phylogeny of animals and plants, the timing and correlation of important events in deep time, and explore fundamental questions related to fluctuating ecological and environmental parameters through time.

Photonics
Combines studies of physics, optics, materials science and electronics in a professionally-oriented degree, spanning photonics, including nanophotonics, biophotonics and technologies such as laser, optical fibres and communications.

Physics
Provides the basis for understanding the universe, matter and energy with major topic areas in astronomy, astrophysics, atomic and molecular physics, relativity, quantum physics, electromagnetism, photonics, solid-state physics, and cosmology.

Spatial Information Science (SIS)
Explores the way spatial information (information about locations on the Earth’s surface) is derived and used, covering a wide range of technologies including Geographic Information Systems (GIS), remote sensing, global positioning systems, and digital aerial photography.

Statistics
The development and application of methods for collecting, analysing and interpreting data, this major incorporates the classical range of disciplinary units that are required for any professional who is working as a statistician or has statistical components to their professional work.

HUMAN SCIENCES

Early Childhood
Focuses on the early years of childhood (birth to 8 years) with exploration of young children’s learning and experience of the arts, literacy, mathematics, science and technology.

Education
A wide range of educational issues including how children grow and develop, the policy issues surrounding the operation and governance of education in Australia, how curriculum is conceptualised and constructed, and learning theories.

Linguistics
Students can concentrate on a Systematic Functional Grammar and discourses analysis approach to grammar and meaning, a socio and cultural/anthropological approach to language study, applied linguistics or speech and hearing sciences.

Psychology
Students learn how psychological practice and theory are deeply rooted in scientific evidence and how that evidence is obtained through the scientific research methods that psychology uses to study behaviour.

Sociolinguistics
A general introduction to most of the major fields of language enquiry and language issues such as Australian English, anthropological linguistics, bilingualism, social and cultural language variation and applications for language policy.
## BUSINESS & ECONOMICS

<table>
<thead>
<tr>
<th>Program</th>
<th>Duration (Years)</th>
<th>Semester Intake</th>
<th>Notes</th>
<th>2010 Fees (AUD)</th>
<th>CRICOS Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>B Actuarial Studies</td>
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**KEY:**
- #1: Semester 1 commences in February
- #2: Semester 2 commences in July
- Double major available
- Double degree options
- Can be combined with a Law degree

*This fee is subject to change. For units completed in 2010, the 2010 fee will apply. For units completed in 2011 and 2012, students will pay the fee approved for the 2011 and 2012 academic year respectively.*

## ARTS

<table>
<thead>
<tr>
<th>Program</th>
<th>Duration (Years)</th>
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<th>Notes</th>
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<tbody>
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## HUMAN SCIENCES

<table>
<thead>
<tr>
<th>Program</th>
<th>Duration (Years)</th>
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<th>Notes</th>
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<tbody>
<tr>
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<td>B Education (Early Childhood Education)</td>
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<tr>
<td>B Speech and Hearing Sciences</td>
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## SCIENCE

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<tbody>
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<td>B Chiropractic Science</td>
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**Further Information:**
- Course information: [www.international.mq.edu.au/study](http://www.international.mq.edu.au/study)
- How to apply: [www.international.mq.edu.au/study/apply](http://www.international.mq.edu.au/study/apply)
- Accommodation: [www.international.mq.edu.au/accommodation](http://www.international.mq.edu.au/accommodation)

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