

STUDY THEME:

MEDICAL & HEALTH SCIENCES

STUDY ABROAD AT UOW

Study Abroad students can select a program of study for one or two sessions from any of the academic disciplines at the University of Wollongong. A series of study packages covering various academic themes has been developed to assist with the planning process. Some of the themes include opportunities for students to incorporate an extra dimension to their semester abroad through an associated volunteering, service learning or internship relevant to the topic.

The selection of subjects highlights offerings in the particular study area in either Autumn (February–June) session or Spring (July–November) session. The themes are indicative only and students have the flexibility to substitute subjects from any of the academic faculties.

More information about the subjects, including individual subject descriptions, assessment requirements and pre-requisite information is available in the Undergraduate Handbook at: www.uow.edu.au/handbook

The latest timetable information for Wollongong campus offerings is at www.uow.edu.au/student/timetables

Detailed subject descriptions can be provided upon request. studyabroad@uow.edu.au

Study abroad is an ideal way for students who are preparing for health-related careers to gain valuable international and cross-cultural perspectives on health policy and medical issues affecting today's global society. The University of Wollongong offers a range of subjects which will be of interest to students undertaking a pre-med program. Interested students should discuss their study options with their home advisors well in advance of their proposed studies as working a study abroad experience into a pre-med/pre-health undergraduate program will require careful planning.

It is possible to undertake some introductory level and upper level courses from a number of faculties at UOW; however, the upper-level programs focussing on health-related studies are normally only open to students with the necessary pre-requisites. Introductory courses in anatomy, biology, chemistry and physics are offered and there are also opportunities to study a variety of health-related social issues, such as bioethics, health needs of particular populations, the economics of health care, concepts and issues in healthcare computing.

> The School of Health Sciences, based within the Faculty of Health & Behavioural Sciences, offers courses of study in a diverse range of health-related discipline areas such as Medical & Health Sciences, Nutrition & Dietetics, Exercise Science & Rehabilitation, Public Health, and Occupational Health & Safety. The programs offered are designed for students who have a desire to understand the scientific basis of human structure, function and health.

- > The School of Nursing, Midwifery and Indigenous Health, based within the Faculty of Health & Behavioural Sciences, teaches a range of courses which are relevant to students interested in community health issues for Aboriginal and Torres Strait Islander people and other indigenous peoples.
- > The Faculty of Science offers courses in biological science, biotechnology, pure and applied chemistry and nanotechnology. In addition, there are courses taught in medicinal chemistry which focus on the biological and medical applications of chemistry. This program is suitable for students interested in pursuing chemistry with a focus on cell and molecular biology. Students will have access to researchers in the Centre for Medicinal Chemistry and Pharmacology (CMCP) who are investigating a diverse range of disease states with aims of developing new pharmaceutical agents targeting novel molecular mechanisms. Current research is specifically targeting a number of infectious diseases, cardiovascular disease and the development of anti-cancer agents.
- > Medical and radiation physics options within the Faculty of Engineering are available alongside fundamental physics, mathematics and biomedical subjects. Professional medical physicists from major hospitals deliver key lectures and practical work.

SUBJECT INFORMATION:

SESSION	SUBJECT CODE	SUBJECT NAME	PRE-REQUISITE KNOWLEDGE	NOTES OR COMMENTS
Autumn session (Feb–July)	BIOL104	Evolution, Biodiversity & Environment	None	
	CHEM 101	Introductory Physical & General Chemistry	None- high school chemistry recommended	
	CHEM 211	Inorganic Chemistry II	CHEM 101 & 102	
	CHEM 212	Organic Chemistry II	CHEM 101 & 102	
	ECON317	Economics of Health Care	None	
	INDS150	Introduction to Indigenous Australia	None	
	ISIT430	Introduction to Health Informatics	24 cp at 300 level	
	NMIH101	Effective Communication in Health Care Relationships	None	
	PHIL 206	Practical Ethics	Any 36 cp	
	PHYS132	Physics for the Environmental & Life Sciences B	None	
	SHS110	Human Growth, Nutrition and Exercise	None	
	SHS111	Introduction to Anatomy & Physiology I	None	May be subject to quota restrictions
	SHS130	Public Health- Current Issues and Their Determinants	None	
	SHS210	Histology	SHS112	
	SHS211	Control Mechanisms Physiology	SHS111 & SHS112	May be subject to quota restrictions
STS251	Social Aspects of Genetics & Biotechnology	Any 36 cp		
Spring Session (July–Nov)	BIOL103	Molecules, Cells & Organisms	None	
	CHEM 102	Structures and Reactivity of Molecules for Life	CHEM 101	
	ISIT429	Concepts & Issues in Healthcare Computing	24 cp at 300 level	
	NANO101	Current Perspectives in Nanotechnology	None	
	NMIH243	Comparative Indigenous Health Issues	None	Available biannually 2010
	PHIL 380	Bioethics	Any 36 cp	
	PHYS155	Introduction to Biomedical Physics	None	
	SCIE 101	Modern Perspectives in Science	None	
	SHS112	Introduction to Anatomy & Physiology II	None	May be subject to quota restrictions
	SHS212	Introduction to Pathophysiology	SHS211	May be subject to quota restrictions
	SOC 230	Body & Society	36 cp at 100 level	Not available in 2010
	STS 320	New Biosciences and the Body	Any 36 cp	

LEVELS OF STUDY

100 level: a subject at first-year level, usually introductory.

200 level: a subject at second-year level, normally requires some background knowledge.

300 level: a subject at third-year level, advanced level undergraduate.

Standard load: one year of full-time study is equivalent to 48 credit points, or 24 credit points each academic session.

GLOSSARY:

> **Subject** a unit of study within a program or degree (called a course in the US system).

> **Assessment** work which a student is required to complete to provide a basis for an official record of achievement or certification of competence in a subject.

> **Credit point** the value that indicates the study load attached to the subject. One credit point has an implied workload of 2 hours per week. For example, a six credit point subject represents a minimum of 12 hours of work per week: this may be 3 hours of classes, 4 hours of reading and 5 hours of personal study.

> **Faculty** a group of Academic Units or Schools.

> **Timetable** a weekly schedule of subject meeting times which may include lectures, tutorial, labs and workshops.

> **Tutorial** often called a tute, a small discussion group, led by a tutor, designed to provide more detailed coverage of subject content.

> **Uni** a common term for a university in Australia.

CONTACT INFORMATION:

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The University of Wollongong attempts to ensure the information contained in this publication is correct at the time of production (March 2010), however, sections may be amended without notice by the University in response to changing circumstances or for any other reason. Check with the University at the time of application/enrolment for any updated information.

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