

Massey University Courses in Ergonomics (<http://ergonomics.massey.ac.nz>)

Massey University's Centre for Ergonomics, Occupational Safety and Health (CErgOSH) offers three qualifications in Ergonomics:

- Postgraduate Diploma in Ergonomics
- Master of Ergonomics
- Doctor of Philosophy in Ergonomics

Link to website: <http://ergonomics.massey.ac.nz>

Also: Ergonomics papers are integrated into Massey University's Graduate Diploma in Occupational Safety and Health (see <http://CErgOSH.massey.ac.nz>)

List of papers – see end for paper details (prescriptions)

- 128.702 Work Capacity and Performance
- 128.705 Ergonomics Analysis
- 128.706 Micro/Macro Ergonomics
- 128.707 People, Technology and Design
- 114.790 Advanced Research Methods in HRM
- 128.801 Masters Thesis
- 128.802 Masters Thesis
- 128.803 Research Report
- 128.804 Ergonomics Professional Practice
- 128.709 Special Topic in Ergonomics
- 114.731 Advanced Occupational Safety and Health
- 114.722 Advanced Organisational Behaviour
- 190.701 Human Factors for Professional Aviation

Cost of courses

Approximately \$500-\$1000 per paper

Tutor information

Academic staff are led by Professor Stephen Legg (environmental physiology) and include Dr Ian Laird (OSH), Dr Rodger Pack (work physiology), Dr Tim Bentley (cognitive and macro-ergonomics), Dr Kirsten Olsen (macro/organisational ergonomics), Dr Maxine Clark (OSH), Rodney Adank (design ergonomics) Lyn Garrett (design ergonomics), Craig Brown (health and eco-ergonomics) and Professor Tony Vitalis (thermal and biomechanical ergonomics).

Contact details for courses

Professor Stephen Legg

Tel +64 6 350 5799 x 2786, Fax +64 6 350 5796, S.J.Legg@massey.ac.nz

Centre for Ergonomics, Occupational Safety and Health (CErgOSH),

Department of Human Resource Management,

Massey University, Private Bag 11222,

Palmerston North, New Zealand

POSTGRADUATE DIPLOMA IN ERGONOMICS

Course name

Postgraduate Diploma in Ergonomics (PGDipErg)

The postgraduate diploma in **ergonomics** provides a comprehensive research and practitioner led education in the multidisciplinary field of ergonomics.

Professional certification and accreditation. The diploma includes most of the educational requirements for certification with the Board for Certification of New Zealand Ergonomists (BCNZE), which has been benchmarked against the Centre for Registration of European Ergonomists (CREE) scheme (see: www.ergonomics.org.nz). Accreditation of the diploma is currently being sought from the Ergonomics Society (UK), The Human Factors Society (USA), the Ergonomics Society of Australia and the New Zealand Ergonomics Society

The learning outcomes and benefits are demonstrable competence in the following topics: ergonomics principles, human characteristics, work analysis and measurement, people, technology and design, ergonomics analysis and professional issues.

Course length and /or structure. One year of extramural full time study or part time equivalent taken over multiple years. Each paper has a compulsory contact (block) module.

Qualification obtained

Postgraduate Diploma in Ergonomics (PGDipErg)

Pre-requisites for the course

Relevant undergraduate degree or equivalent status (on application)

Course content/subjects. Five compulsory papers as follows:

Paper	Title	Contact module
128.702	Work Capacity and Performance	July - Palmerston North
128.705	Ergonomics Analysis	April/July - Auckland
128.706	Micro/Macro Ergonomics	July- Palmerston North
128.707	People, Technology and Design	July – Wellington
114.790	Advanced Research Methods in HRM	April - Palmerston North

MASTER OF ERGONOMICS

Course name

Master of Ergonomics (MErg)

The Master of Ergonomics degree provides a comprehensive postgraduate research and practitioner led education in the multidisciplinary field of ergonomics. The degree includes most of the educational and supervised professional practice requirements for certification with the Board for Certification of New Zealand Ergonomists (BCNZE), which has been benchmarked against the Centre for Registration of European Ergonomists (CREE) scheme (see www.ergonomics.org.nz). Accreditation of the degree is currently being sought from the Ergonomics Society (UK), The Human Factors Society (USA), the Ergonomics Society of Australia and the New Zealand Ergonomics Society.

The learning outcomes and benefits are demonstrable competence in ergonomics principles, human characteristics, work analysis and measurement, people, technology and design, ergonomics analysis and professional issues: supervised professional practice and research.

Course length and /or structure (e.g. block course, correspondence, 1 year etc) One or two years of extramural full time study or part time equivalent taken over multiple years. Each paper has a compulsory contact (block) module.

Qualification obtained

Master of Ergonomics (MErg)

Pre-requisites for the course

Relevant undergraduate degree or equivalent status (on application)

Progression form Schedule A (year one) is conditional on gaining a B(+) average or demonstrable strength in research

Course content/subjects

Schedule A: all papers are compulsory; a total of 120 credits is required.

<i>Paper</i>	<i>Title</i>	<i>Contact module</i>
128.702	Work Capacity and Performance (15 credits)	July Palmerston North
128.705	Ergonomics Analysis (30 Credits)	April/July Auckland
128.706	Micro/Macro Ergonomics (30 credits)	July Palmerston north
128.707	People, Technology and Design (15 credits)	July Wellington
114.790	Advanced Research Methods in HRM (30 credits)	April Palmerston North

Schedule B: one alternative is compulsory; a total of 120 credits is required.

<i>Alternative</i>	<i>Paper Title</i>
1.	128.801 Masters Thesis (120 credits)
2.	128.803 Research Report (60 credits)
Optional papers (60 credits)	
3.	128.803 Research Report (60 credits)
	128.804 Ergonomics Professional Practice (60 credits)
4.	128.804 Ergonomics Professional Practice (60 credits)
Optional papers (60 credits). The optional papers are:	
	128.709 Special Topic in Ergonomics (30 credits)
	114.731 Advanced Occupational Safety and Health (30 credits)
	114.722 Advanced Organisational Behaviour (30 credits)
	190.701 Human Factors for Professional Aviation (30 credits)

DOCTOR OF PHILOSOPHY IN ERGONOMICS

Course name

Doctor of Philosophy in Ergonomics (PhD)

Course length and /or structure (e.g. block course, correspondence, 1 year etc)

Three to six years of full or part-time internal or extramural research.

Qualification obtained

Doctor of Philosophy in Ergonomics (PhD)

Pre-requisites for the course

Relevant undergraduate Honours or Masters degree or equivalent status (on application). Progression from Year one (for full time) or two (for part-time) is conditional on recommendation to the Doctoral Research Committee from academic supervisors

Course content/subjects

Students with a good Honours degree or Masters degree with evidence of good performance in an advanced research methods paper may be admitted to the doctoral programme (Paper Number 128.900). This is a three-year full time (or longer part-time) course of study by research leading to the award of Doctor of Philosophy in Ergonomics. Students may study in the internal or extramural mode and are required to prepare for external examination a doctoral thesis in a selected area of ergonomics according to the Massey University Doctoral Research Committee College of Sciences schedules. Academic supervision will be by a staff member with expertise in the area of the research topic. Regular supervisory meetings are held with the academic supervisor(s). Further details may be obtained from Massey University's Doctoral Research Committee (DRC) regulations.

Paper content/prescriptions

128.702 Work Capacity and Performance

An outline of ergonomics of the basic body systems, musculo-skeletal, cardiovascular, respiratory and endocrine/neural. Physiological energy expenditure responses and adaption to physical work, anthropometric and biomechanical studies of group and individual factors affecting performance.

128.705 Ergonomics Analysis

Principles underpinning the ergonomics approach with focus on methods of measurement, investigation, work analysis including study of aspects of workplace, information and work organisation design as well as a study in industry, which will act as an exemplar for professional practice.

128.706 Micro/Macro Ergonomics

Ergonomics principles, human psychological, social and organisational characteristics related to ergonomics, systems theory, human reliability, training, instruction, workplace, information and work organisation design, professional issues.

128.707 People, Technology and Design

Ergonomics principles and practices for the design of products, equipment and complex systems. People in relation to the physical environment, technology and design.

114.790 Advanced Research Methods in HRM

Introduces students to the research design principles of qualitative and quantitative research methodologies, data collection procedures, analysis of data and interpretation of results, and writing the research report.

128.801 Masters Thesis

A research thesis in a selected area of ergonomics.

128.802 Masters Thesis

A research thesis in a selected area of ergonomics.

128.803 Research Report

A research report in a selected area of ergonomics.

128.804 Ergonomics Professional Practice

Supervised academic and industrial professional practice training. Includes design and conduct of a practical ergonomics project in an industrial setting and demonstration of mastery of professional issues.

128 709 Special Topic in Ergonomics

Study in any approved ergonomics application areas.

114.731 Advanced Occupational Safety and Health

An advanced course of study of current issues in occupational safety and health.

114.722 Advanced Organisational Behaviour

This course is an examination of applied psychology and sociology in the context of organisations. The content is based on a foundation of theory which students are expected to critically analyse. The paper is designed so that students apply the theory to modern organisational situations.

190.701 Human Factors for Professional Aviation

An in-depth study of the latest developments and research applications associated with the human factor aspects of aviation. Particular emphasis is placed on the subjective versus objective parameters used in flight crew, air traffic and other aviation systems assessment, including the application of technology to such outcomes.