CONTENTS

Welcome to Murdoch University ................................................................................ ..............1

STEP
1  Accept Offer and Activate Account................................................................. 2
2  Research Your Options ....................................................................................... 3
3  Complete Your Enrolment .................................................................................. 5
4  Select Your Activities ......................................................................................... 7
5  Get Advice ........................................................................................................... 8
6  Go To Orientation and Start Uni ................................................................. 9
7  Important Information and FAQs .................................................................. 10

APPENDICES
A  Full Handbook Description and Course Structure............................................. 12
    Postgraduate Certificate in Energy Studies.................................................... 12
    Graduate Diploma in Extractive Metallurgy...................................................... 14
    Postgraduate Diploma in Energy and the Environment.................................... 15
    Postgraduate Diploma in Energy Studies ..................................................... 17
    Master of Engineering....................................................................................... 18
    Master of Science in Extractive Metallurgy.................................................. 19
    Master of Science in Renewable Energy...................................................... 20
    Master of Science in Environmental Architecture ........................................ 22
B  Personal Study Plan.......................................................................................... 23
C  Program Chair & Academic Contact Details.................................................. 24
D  Enrolment Enquiries......................................................................................... 24
E  Handy Contacts and Websites ....................................................................... 25
Welcome to Murdoch University

Congratulations on your offer of a place to study at Murdoch University. The details included in this booklet will assist you with accepting your offer, seeking advice on your enrolment options, choosing your units and completing your enrolment online. The 7 Steps below ensure that you have the basic information you need to navigate successfully through your first enrolment experience at Murdoch.

Students who are unable to access computer facilities due to exceptional circumstances are able to apply to receive their University correspondence via hardcopy. For further information please contact the External Studies Unit on 93602710.

- **STEP 1** Accept Offer and Activate Account
- **STEP 2** Research Your Options
- **STEP 3** Complete Your Enrolment
- **STEP 4** Select Your Activities
- **STEP 5** Get Advice
- **STEP 6** Go To Orientation and Start Uni
- **STEP 7** Important Information and FAQs
STEP 1
Accept Offer and Activate Account

☐ Go to the Murdoch Home page …
    … http://www.murdoch.edu.au/ and click on the “New students” link on the bottom left of your screen. This will take you to our New Students website.

☐ Select the Accept & Activate icon

☐ Read the instructions …
    … carefully for your offer type, then click on the “New students…walk this way” icon.

    You will need your Offer Letter (Domestic students) or Confirmation of Enrolment- eCOE (International students) as this contains your Student Number.

☐ Enter your Student Number

☐ Enter your Date of Birth …
    … in the format DD/MM/YYYY (eg 12/03/1985) and click the SUBMIT button.

☐ Now you can:
    ☐ Choose to Accept, Defer or Reject your offer (domestic students only)
    ☐ Set your Murdoch Password (all students)
    ☐ Set and confirm your email address (all students)
    ☐ Select your course as offered (domestic students only)

☐ Congratulations …
    … you have accepted your place as a Murdoch student and you are now ready to select your units and complete your enrolment!
STEP 2

Research Your Options

☐ Read your Handbook Description and Course Structure (Appendix A)

The description will provide you with information about your course and any relevant specialisations. The structure of your course details the units you need to complete for your degree. It includes required prerequisites to help you plan the order of your units.

☐ Choose your units …

…you want to enrol in for the current year by using the information you have reviewed above (Appendix A). You can find out about each unit in the Handbook online http://handbook.murdoch.edu.au/units/.

☐ Check your Timetable

Generally you should find that the lectures for your core units and specified elective units will not clash, however some specified elective units may not fit into your timetable. If this happens you may need to choose another specified elective.

You can check the timetable for the units you have chosen for your enrolment to make sure they are not timetabled to run at the same time.

The quickest method of checking this is to refer to the online teaching timetable’s Nominated Units Enquiry website at:


Don’t panic if you are unsure of your choice of units. Do the best you can, and then seek help via:

☐ New Student website http://www.murdoch.edu.au/students/new/ provides more details regarding the choices of units and enrolment in units via MyInfo.

☐ Your Postgraduate Coursework Advice Session that will be held during Orientation Week where there will be staff available to answer your queries about your course. (see Step 5)
Faculty Student Administration staff member. You have been allocated a staff member to assist you with your enrolment queries regarding your chosen course, for contact details see Appendix D.

Now you are ready to enrol …
Complete Your Enrolment

Log in to MyMurdoch ..

… at http://www.murdoch.edu.au/goto/MyMurdoch to access your portal to Murdoch’s online facilities using your Murdoch User Name (Student Number) and Murdoch Password (as per Step 1).

Click on MyInfo tab

Log in to MyInfo using your Murdoch User Name (Student Number) and Murdoch Password (as per Step 1). And yes, the University is working on this double log in process!

What is MyInfo? MyInfo is the University’s student self enrolment and management system. Within MyInfo you can manage your enrolment including unit selection, unit set (course and specialisations – if applicable) enrolment and activity signup. You can also update your personal details (home and postal addresses, email address etc).

☐  Go to Self Enrolment Steps

On the left menu, click on <Change Enrolment Details> and then <Self Enrolment Steps>. Read all of the information on this page and then scroll down to the <Self Enrolment Steps> heading. Work your way through each of the steps.

Icons are used to represent the status of each Self Enrolment Step. Each step has an explanation to the process so please read each one carefully.

☐  Disclaimer
☐  Services
☐  Government Statistics

☐  Course Completion Date

Keeps the university informed of when you expect to graduate, so please keep this up to date as it is very important.
Unit Sets (Course and Specialisation – if applicable)

You will need to have at least one Unit Set recorded as your Primary Unit Set. Your Primary Unit Set must relate to the course you are currently enrolled under.

What are Unit Sets? This is the name given to the Course and Specialisations (if applicable) by MyInfo, and often referred to as a Course. You must have at least one primary unit set on MyInfo that matches the course you were offered (e.g. Master of Arts in Public Policy, with Primary Unit set of MA-PUB-POL).

Units

This is where you enrol in your individual units. Use the Search function to find the unit you want. You can also just type in the unit code of the unit you wish to enrol in. Do one unit at a time and Save Changes after each unit added. Remember to enrol in all of your units for the year.

D = internal, X = external, S1 = Semester 1, S2 = Semester 2.
When you have successfully enrolled in a unit the ‘Status’ column will show ‘Enrolled’ and the background colour will change from grey to blue.

Remember to make sure you have your Pop-Up Blockers turned off when you are in MyInfo as it will affect your ability to save your units.

Commonwealth Assistance Form (Domestic Students only)

This is a Commonwealth Government requirement. To complete this you will need your Tax File Number (TFN). If you do not have your TFN handy or have not applied for one from the Australian Taxation Office yet you can come back to this step later, however this step must be completed by the Census Date to avoid having your course cancelled as per Commonwealth Government regulations.

Check your Current Enrolment Details

When you have enrolled in all units that you intend to take for the year you are encouraged to view your current enrolment from the <Current Enrolment Details> menu in MyInfo. Select <Course and Unit Details> and then click on the course code next to the <Units> heading. You will need to check that all of the units that you intend to take for the year are included.

Unit Status shows as ENROLLED!

Well done, you have enrolled in your units. Please be aware that your Course Status will remain as Inactive until semester begins.

If you have any trouble getting into or navigating your way around MyMurdoch or have a technical issue, check out the Help link or contact the IT Service Desk (itservicedesk@murdoch.edu.au, p: 93602000 or Level 2, North Wing, Library).
STEP 4

Select Your Activities

☐ Sign up for your Activities

What are Activities? Activities are the collective term used for lectures, tutorials, workshops, seminars and laboratories.

You will need to have completed your Unit Enrolment (Step 3) before you can sign up to the associated activities.

Log in to MyMurdoch and then MyInfo as per Step 3 (http://www.murdoch.edu.au/goto/MyMurdoch). On the left menu, click on <Change Enrolment Details> and then <Activity Sign Up>. Read all of the information as it will tell you when the Activity Sign Up function is open.

The system works on a first-in-first-served basis so you are advised to enrol in your activities as soon as possible.

Click on <Add or Change Activities>. Read all of the information and then scroll down to see your Unit enrolments and the available activities.

Although signing up to a Lecture activity may not be mandatory for all units, it is recommended that you do to highlight any possible clashes on your timetable. If your unit attempt status is ‘Invalid’, you will be unable to sign up for activities for that unit.

☐ Select Activities

Make your selections for the different activities. It is recommended that you start with all your lectures first and save. Then choose the other associated activities for each unit, saving as you go. Be sure you also note the start week for each activity as they may not all start from Week 1 of the teaching period.

☐ View Activities Timetable

Click on the MyUnits page of MyMurdoch to see all of your activities displayed on your Personal Calendar. Print this out for your diary.
STEP 5

Get Advice

Your Program Chair(s) will advise you on the requirements of your course and answer any unit selection and enrolment queries at your Postgraduate Course Advice session held before the start of the semester. This session will provide you with valuable information relating to your course, units and enrolment options and it is therefore essential that you attend.

For the full Orientation timetable see http://www.murdoch.edu.au/students/new/orientation.html.

☐ When and Where is your Postgraduate Coursework Advice Session?

When: Wednesday, July 30 at 6.00 pm
Where: Level 3, Library Learning Common
Who: All postgraduate students.

There are online maps of the three campuses for Murdoch at http://www.murdoch.edu.au/index/visitors/wherearewe#campuses The maps will provide details of where the Postgraduate Coursework Advice session venue is.

If you are still unsure of your choice of units after you have read this booklet and you have attended the relevant Postgraduate Coursework Advice Session you can email or phone your Faculty Student Administration staff member (Appendix D) with details of your query.
The Orientation program has been designed to meet your specific needs as a new postgraduate student to Murdoch. This includes an introduction to key Murdoch University staff, the campus and to the facilities and services that are available to you.

You can check the full orientation timetable (http://www.murdoch.edu.au/students/new/orientation.html) for event and Postgraduate Coursework Advice Session details.

All students should attend Orientation to experience the helpful and friendly atmosphere at Murdoch.

☐ Things to do during Orientation Week:
  - Attend your Postgraduate Coursework Advice Session
  - Discover – All about Murdoch and what you should expect here.
  - Support – Who can help you? Find out before you need it!
  - Explore – Campus and Library tours. How not to get lost.
  - Connect – Computer use on campus
  - Succeed – How to be a successful student
  - Meet the Student Guild and find out about their services
  - Have your photo taken for your Student ID/Library Card
  - Organise a parking permit (or avoid the queues and do it online at: http://www.oss.murdoch.edu.au/parking/)
  - Join one of the many Murdoch Clubs & Societies
  - Meet other students in your same course.
Important Information and FAQs

Units – Which units do I need to do and how do I know that I have enrolled in the right units? Your Course Structure (Appendix A) in this booklet shows you which are your required units. Details for other courses are available from the Faculty Student Administration website http://www.murdoch.edu.au/fsa/.

Invalid Units – Why is my unit enrolment INVALID? Beside the invalid unit, you will find a grey button labelled ‘Why is this Invalid?’ When you click on this button, a pop-up window will display the reason that the unit is invalid. If you still require help, print off or copy down this information before contacting your Faculty Student Administration staff member (Appendix D).

Dissertation/Thesis/Project Units – Why can’t I enrol in them? If your course requires enrolment in a Dissertation/Thesis/Project unit, you may not be able to self-enrol in that unit. As these units are usually taken over one or more semesters, we enrol you in proportional points to ensure the load is accurately reflected on your academic record. Please contact your Faculty Student Administration staff member for assistance (See Appendix D).

Activities – How do I sign up & what do I do if they are full? Use Step 4 to assist you with your Activity sign up within the MyInfo part of MyMurdoch. If your chosen Activity is full, there are three options available: review your whole timetable to check if you can change to another unit, consider doing a unit externally (if available), or contact the Unit Coordinator if you have exceptional circumstances. Unit Coordinator contact details can be found by entering the unit code in the search bar on the MyUnits page of MyMurdoch.

Where can I find my credit and exemptions (Advanced Standing)? If you have notified the University that you wish to be assessed for Advanced Standing (either on your application or via contact with the Accreditation Officer), your credit and exemptions will be shown on MyInfo part of MyMurdoch. Go to ‘Current Enrolment Details’, select <Course and Unit Details>, scroll down the list to <Advanced Standing> and click on course code next to this heading (eg M1006). Allow at least 10 working days from receipt by the University of your application and supporting documentation before this information will be available on your enrolment record. Should you have any queries regarding Advanced Standing you should contact the Accreditation Officer (see Appendix E).
Enrolment Deadlines – Internal and External units. You will be expected to enrol in all your units for the current year as soon as possible. The last date to add a unit is the Friday of Week 1 of the teaching period. For external units, the mail-out of unit materials will commence two weeks prior to the start of each teaching period, so you should enrol in your external units as soon as possible. If you enrol in an external unit after the initial mail-out you should allow up to 10 days from the date you enrolled to receive your materials.

University Regulations and Rules Students should ensure they are familiar with the University’s internal legislation, including provisions specifically relevant to their studies. University Regulations and Rules. http://www.murdoch.edu.au/admin/legsln/

How do I add or change my course? To change your course entirely will require a new application to be submitted which can only be applied for near the end of each semester. The relevant course application forms can be found at http://www.murdoch.edu.au/Future-students/Postgraduate-/ Email Account & Correspondence The University’s primary form of contact with students is via email. The University automatically provides you with an email address, (yourstudentnumber@student.murdoch.edu.au) and you can access this email account at: https://wwwstudent.murdoch.edu.au/mail using your Murdoch User name and Password (same as MyMurdoch). You can choose to use a different email account, for example a Yahoo account. It is essential that you keep the email address listed in MyInfo page of MyMurdoch up to date so that you receive important communications from your lecturers and the University.

Cancellation of Courses The University reserves the right to cancel, without notice, any course or unit if the number of students enrolled falls below limits set by the University.

Glossary A general summary to help you with some of the more common terms that you will come across as you plan your studies can be found on the Faculty Student Administration web page. A full list of Murdoch terminology and relevant regulation requirements can be found in the Murdoch Glossary http://handbook.murdoch.edu.au/2008/09_glossary.pdf.
<table>
<thead>
<tr>
<th>Postgraduate Certificate in Energy Studies</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Credit Points</strong></td>
</tr>
<tr>
<td><strong>Course Codes</strong></td>
</tr>
<tr>
<td><strong>Description</strong></td>
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<tr>
<td><strong>Special Requirements</strong></td>
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### Course Structure — 12 points

**Core Units — 4 points**
- □ PEC592 Energy in Society — 4 pts  
  Murd: S1-Int, S1-Ext, S2-Ext, Y-Ext

**Specified Electives — 8 points**

Select two units from the following:

**Energy Management Specialisation**
- □ PEC594 Energy Management — 4 pts  
  Murd: S1-Int, S1-Ext, S2-Ext, Y-Ext
- □ PEC625 Energy Efficiency, System Analysis and Auditing — 4 pts  
  Murd: S2-Ext, Y-Ext
- □ PEC626 Industrial and Commercial Energy Efficiency Technologies — 4 pts  
  Murd: S2-Ext, Y-Ext

**Energy Systems Specialisation**
- □ PEC590 Energy Systems — 4 pts  
  Murd: S2-Int, S2-Ext, Y-Ext
- □ PEC587 Renewable Energy and Sustainable Development — 4 pts  
  Murd: S2-Int, S2-Ext, Y-Ext
- □ PEC598 Scientific Monitoring and Data Analysis — 4 pts  
  Murd: S2-Int, S2-Ext
- □ PEC621 Renewable Energy Devices — 4 pts  
  Murd: H-Ext, S1-Int, S1-Ext
- □ PEC622 Renewable Energy Resources — 4 pts  
  Murd: H-Ext, S1-Int, S1-Ext
PEC623 Renewable Energy Systems Design — 4 pts
Murd: S2-Int, S2-Ext, Y-Ext

PEC620 Case Studies of Renewable Energy Systems — 4 pts
Murd: S2-Int, S2-Ext, Y-Ext

Energy Policy Specialisation
PEC591 Energy Policy — 4 pts
Murd: S2-Int, S2-Ext, Y-Ext

PEC593 Energy Economics — 4 pts
Murd: S2-Int, S2-Ext, Y-Ext

PEC632 Greenhouse Science and Policy — 4 pts
Murd: H-Ext, S1-Int, S1-Ext

PEC627 Advanced Energy Policy: Electricity Market Reform — 4 pts
Murd: S1-Int, S2-Ext

Built Environment Specialisation
PEC670 Energy Efficient Building Design — 4 pts
Murd: S1-Int, S1-Ext

PEC671 Solar Architecture and Health in Buildings — 4 pts
Murd: S2-Int, S2-Ext

PEC672 Climate Sensible Home Design — 4 pts
Murd: S2-Int, S2-Ext
<table>
<thead>
<tr>
<th><strong>Graduate Diploma in Extractive Metallurgy</strong></th>
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<tr>
<td><strong>Credit Points</strong></td>
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<tr>
<td><strong>Course Codes</strong></td>
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<tr>
<td><strong>Description</strong></td>
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<td><strong>Special Requirements</strong></td>
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<tr>
<td><strong>Professional Recognition</strong></td>
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<tr>
<th><strong>Course Structure — 24 points</strong></th>
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<tbody>
<tr>
<td>Students are required either to select six of the units listed below, or four of those units and a project, depending on the student’s background and as recommended by the Program Chair.</td>
</tr>
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</table>

- **EXM224 Principles of Unit Operations — 4 pts**
  - Murd: S1-Int, S1-Ext
- **EXM256 Process Mineralogy — 4 pts**
  - Murd: S2-Int
- **PEC201 Thermodynamics — 4 pts**
  - Murd: S2-Int, S2-Ext
- **EXM301 Mineral Processing I — 4 pts**
  - Murd: S1-Int
- **EXM302 Mineral Processing II — 4 pts**
  - Murd: S2-Int
- **EXM356 Hydrometallurgy — 4 pts**
  - Murd: S2-Int, S2-Ext
- **EXM357 Pyrometallurgy — 4 pts**
  - Murd: S1-Int, S1-Ext
- **EXM358 Pyrometallurgy — 4 pts**
  - Murd: S1-Int, S1-Ext
- **EXM455 Project in Extractive Metallurgy — 8 pts**
  - Murd: S1-Int, S1-Ext, S2-Int, S2-Ext
### Postgraduate Diploma in Energy and the Environment

<table>
<thead>
<tr>
<th>Credit Points</th>
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<tbody>
<tr>
<td>Course Codes</td>
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</tr>
</tbody>
</table>

**Description**

This diploma is intended to provide postgraduate training for Australian and international professionals working, or wishing to work, in the field of environmental management of the energy industry. The course is interdisciplinary in nature, consisting of units drawn from the areas of energy studies and environmental impact assessment. The objective of the course is to provide students with an understanding of the policy context of energy systems, the environmental impacts associated with these systems, and their assessment and subsequent monitoring. The course will be relevant to consultants wishing to practice in this field and to people employed by various private and public organisations that are active in the energy and environment area.

The Postgraduate Diploma in Energy and the Environment is directed to the interface between energy studies and environmental impact assessment and assumes some prior knowledge. Students can complete the course with a focus upon the policy and/or the scientific aspects of the environmental management of the energy industry.

**Special Requirements**

This course is available to external students anywhere in the world who wish to study off campus by using printed and Internet facilities. Assistance is provided by tutors, using mail, telephone or email. When studied in the external mode, some attendance may be required for some Environmental Science units.

---

**Energy, Environment and Sustainability Specialisation**

**Course Structure — 24 points**

**Core Units — 4 points**

- □ PEC592 Energy in Society — 4 pts  
  Murd: S1-Int, S1-Ext, S2-Ext, Y-Ext

**Specified Electives — 20 points**

Select 8 points from the Energy Studies electives and 8 points from the Environmental Science electives. The remaining 4 points may be chosen from either list.

**Energy Studies Electives**

- □ PEC594 Energy Management — 4 pts  
  Murd: S1-Int, S1-Ext, S2-Ext, Y-Ext

- □ PEC590 Energy Systems — 4 pts  
  Murd: S2-Int, S2-Ext, Y-Ext

- □ PEC591 Energy Policy — 4 pts  
  Murd: S2-Int, S2-Ext, Y-Ext

- □ PEC593 Energy Economics — 4 pts  
  Murd: S2-Int, S2-Ext, Y-Ext

- □ PEC632 Greenhouse Science and Policy — 4 pts  
  Murd: H-Ext, S1-Int, S1-Ext

- □ PEC670 Energy Efficient Building Design — 4 pts  
  Murd: S1-Int, S1-Ext

- □ PEC587 Renewable Energy and Sustainable Development — 4 pts  
  Murd: S2-Int, S2-Ext, Y-Ext

- □ PEC598 Scientific Monitoring and Data Analysis — 4 pts  
  Murd: S2-Int, S2-Ext

- □ PEC596 Energy Studies Project — 4 pts  
  Murd: S1-Int, S1-Ext, S2-Int, S2-Ext, Y-Ext  
  (this unit is usually taken in the last
semester)

- PEC627 Advanced Energy Policy: Electricity Market Reform — 4 pts
  Murd: S1-Int, S2-Ext
- PEC597 Special Topics in Energy Studies: Life Cycle Analysis and Greenhouse Accounting — 4 pts
  Murd: S2-Int, S2-Ext, Y-Ext

Environmental Science Electives

- ENV528 Environmental Policy and Law — 4 pts
  Murd: S2-Int, S2-Ext
- ENV616 Environmental Policy for the 21st Century — 4 pts
  Murd: S1-Int, S1-Ext
- ENV520 Principles of Environmental Impact Assessment — 4 pts
  Murd: S1-Int, S1-Ext
- ENV513 Atmospheric Science — 4 pts
  Murd: S1-Int, S1-Ext
- ENV505 Environmental Monitoring — 4 pts
  Murd: S2-Int, S2-Ext
- ENV522 Techniques for Environmental Impact Assessment — 4 pts
  Murd: S1-Int, S1-Ext

Global Warming and Climate Science Specialisation

Course Structure — 24 points

Core Units — 20 points

- PEC592 Energy in Society — 4 pts
  Murd: S1-Int, S1-Ext, S2-Ext, Y-Ext

Energy Studies Units — 8 points

- PEC591 Energy Policy — 4 pts
  Murd: S2-Int, S2-Ext, Y-Ext
- PEC632 Greenhouse Science and Policy — 4 pts
  Murd: H-Ext, S1-Int, S1-Ext

Environmental Science Units — 8 points

- ENV513 Atmospheric Science — 4 pts
  Murd: S1-Int, S1-Ext
- ENV630 Special Topics in Environmental Science: Earth System Science — 4 pts
  Murd: S2-Int, S2-Ext

Specified Electives — 4 points

Select 4 points from either the Energy Studies or Environmental Science electives in the Energy, Environment and Sustainability Specialisation.
Postgraduate Diploma in Energy Studies

Credit Points
24

Course Codes
P1000

Description
The Postgraduate Diploma in Energy Studies is intended to provide graduates with a one-year course of study that covers the core areas of Energy Studies. These skills may assist or enhance graduates work in areas such as energy policy, energy economics, energy management and efficiency, sustainable energy systems design and planning, the environmental impact of energy systems and their use, as well as renewable energy research. It offers the opportunity to explore an area in depth via a short research project.

The Diploma is offered on a fee-paying basis only; students who wish to enrol on a Commonwealth-supported basis should refer to the one-year Bachelor of Applied Science (Energy Studies).

Special Requirements
Using printed and Internet facilities, students may complete this degree without needing to attend the campus. Assistance is provided by tutors who will correspond with you by telephone, letter or the Internet.

Course Structure — 24 points

Core Units — 20 points
- PEC592 Energy in Society — 4 pts
  Murd: S1-Int, S1-Ext, S2-Ext, Y-Ext
- PEC594 Energy Management — 4 pts
  Murd: S1-Int, S1-Ext, S2-Ext, Y-Ext
- PEC590 Energy Systems — 4 pts
  Murd: S2-Int, S2-Ext, Y-Ext
- PEC591 Energy Policy — 4 pts
  Murd: S2-Int, S2-Ext, Y-Ext
- PEC593 Energy Economics — 4 pts
  Murd: S2-Int, S2-Ext, Y-Ext

Specified Electives — 4 points
Select from the following:
- PEC632 Greenhouse Science and Policy — 4 pts
  Murd: H-Ext, S1-Int, S1-Ext
- PEC587 Renewable Energy and Sustainable Development — 4 pts
  Murd: S2-Int, S2-Ext, Y-Ext
- PEC598 Scientific Monitoring and Data Analysis — 4 pts
  Murd: S2-Int, S2-Ext
- PEC670 Energy Efficient Building Design — 4 pts
  Murd: S1-Int, S1-Ext
- PEC625 Energy Efficiency, System Analysis and Auditing — 4 pts
  Murd: S2-Ext, Y-Ext
- PEC596 Energy Studies Project — 4 pts
  Murd: S1-Int, S1-Ext, S2-Int, S2-Ext, Y-Ext
  (this unit is usually taken in the last semester of the Diploma)
# Master of Engineering

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<thead>
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<tbody>
<tr>
<td>Course Codes</td>
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</table>

## Description

The Master of Engineering is intended for practising professionals who are currently working in the specialised areas of Process Control and Instrumentation Systems in a wide range of manufacturing, processing and information technology industries, who wish to update their existing qualifications and/or enhance their skills in a range of modern technologies.

The ME offers a single specialisation in Instrumentation and Control Engineering.

## Special Requirements

Some units in this course are offered in a flexible delivery mode, allowing candidates to complete some of their studies at home or at their workplace.

## Professional Recognition

Can be used to meet the CPE requirements of practising Professional Engineers.

## Course Structure — 48 points

### Core Units — 48 points

#### Instrumentation and Control Engineering Specialisation

- ENG615 Instrumentation and Control Engineering Masters Project — 12 pts
  Murd: H-Int, S1-Int, S2-Int, U-Int, Y-Int
- ENG618 Modelling and Simulation of Industrial Processes — 4 pts
  Murd: S1-Int, S2-Int, U-Int
- ENG617 Advanced SCADA Systems — 4 pts
  Murd: S1-Int, S2-Int, U-Int
- ENG616 Advanced Control Systems — 4 pts
  Murd: S1-Int, S2-Int, U-Int
- ENG564 Industrial Instrumentation Technologies — 4 pts
  Murd: S1-Int, S2-Int, U-Int
- ENG502 Advanced Topics in Instrumentation and Control — 4 pts
  Murd: S1-Int, S2-Int, U-Int
- ENG508 Design Methodologies in Instrumentation and Control — 4 pts
  Murd: S1-Int, S2-Int, U-Int
- ENG512 Advanced Control Design — 4 pts
  Murd: S1-Int, S2-Int, U-Int
- ENG514 Industrial Signals and Systems — 4 pts
  Murd: S1-Int, S2-Int, U-Int
- ENG501 PLC Applications — 4 pts
  Murd: S1-Int, S2-Int, U-Int
<table>
<thead>
<tr>
<th>Title</th>
<th>Master of Science in Extractive Metallurgy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Credit Points</td>
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<td>Description</td>
<td>This course is designed for scientists and engineers working in extractive metallurgy who wish to update their existing qualifications, extend their knowledge in extractive metallurgy, undertake research and meet continuing professional education requirements of their professions. Advanced training in the core disciplines — mineral processing, hydrometallurgy, pyrometallurgy, process control, process mineralogy, modelling, simulation and optimisation of mineral processing plants — is available through flexible unit content. Industry-based research projects are a feature of the course.</td>
</tr>
<tr>
<td>Special Requirements</td>
<td>The course will be presented in a range of teaching modes, including conventional on-campus teaching, external and online teaching, intensive short-course modules and industry-based research.</td>
</tr>
<tr>
<td>Professional Recognition</td>
<td>Those who enrol in this course are likely to have met requirements for professional recognition in metallurgy, engineering or chemistry. The degree is presented in accordance with the policies of the Australasian Institute of Mining and Metallurgy and the Mineral Council of Australia for professional development courses.</td>
</tr>
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**Course Structure — 24 points**

**Core Units — 12 or 16 points**
- □ EXM502 Processing Techniques in Extractive Metallurgy — 4 pts
  Murd: H-Int, S1-Int, S2-Int, Y-Int
- □ EXM555 Research Project and Dissertation in Extractive Metallurgy — 12 pts
  Murd: H-Int, S1-Int, S2-Int, Y-Int
  OR
- □ EXM555-08 Research Project and Dissertation in Extractive Metallurgy — 8 pts

**Specified Electives — 8 or 12 points**
Select from the following:
- □ EXM503 Process Design Methodologies — 4 pts
  Murd: H-Int, S1-Int, S2-Int, Y-Int
- □ EXM501 Operating Practices in Extractive Metallurgy — 4 pts
  Murd: H-Int, S1-Int, S2-Int, Y-Int
- □ EXM435 Advanced Topics in Extractive Metallurgy — 4 pts
  Murd: Y-Int
<table>
<thead>
<tr>
<th><strong>Title</strong></th>
<th>Master of Science in Renewable Energy</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Credit Points</strong></td>
<td>24</td>
</tr>
<tr>
<td><strong>Course Codes</strong></td>
<td>M1155</td>
</tr>
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</table>
| **Description** | This course offers advanced training in the area of renewable energy systems, sustainable energy policy or energy efficiency. The renewable energy systems specialisation is designed to provide graduates with specific training in advanced areas of renewable energy technology. The emphasis is on the design, analysis and implementation of energy systems, with particular emphasis on renewable energy systems. The renewable energy policy specialisation is designed to provide graduates with training in advanced areas of renewable energy technology and policy. The emphasis is on policy analysis, environmental monitoring and resource assessment related to renewable energy systems. The energy efficiency specialisation, offered in conjunction with Massey University, is designed to provide graduates with training in advanced areas of energy management and energy efficiency, with particular emphasis on systems analysis and auditing and industrial and commercial technology. The objectives of the course are:  
  - to provide a thorough training in the principles of sustainable energy systems;  
  - to introduce students to the practical aspects of renewable energy systems design, monitoring and development (renewable energy systems specialisation);  
  - to train engineers, scientists, environmental scientists and policy analysts to participate in the development of the renewable energy and energy efficiency industries in Australia and overseas;  
  - to address the social, economic and environmental issues involved with sustainable energy systems. |
| **Special Requirements** | This course is available to external students anywhere in the world who wish to study off campus by using printed and Internet facilities. Assistance is provided by tutors, using mail, telephone or email. |
Course Structure — 24 points

Core Units — 12 points
- PEC620 Case Studies of Renewable Energy Systems — 4 pts
  Murd: S2-Int, S2-Ext, Y-Ext
- PEC624 Renewable Energy Dissertation — 8 pts
  Murd: H-Ext, Y-Int, Y-Ext

Specified Electives — 12 points
Student may select any 12 points from any of the units listed below or complete one of the specialisations as indicated. (Students must select at least one 600-level elective to fulfill the minimum requirements of 16 points at 600-level for the MSc):

Renewable Energy Systems Specialisation
Select 12 points from the following:
- PEC622 Renewable Energy Resources — 4 pts
  Murd: H-Ext, S1-Int, S1-Ext
- PEC621 Renewable Energy Devices — 4 pts
  Murd: H-Ext, S1-Int, S1-Ext
- PEC623 Renewable Energy Systems Design — 4 pts
  Murd: S2-Int, S2-Ext, Y-Ext
- PEC587 Renewable Energy and Sustainable Development — 4 pts
  Murd: S2-Int, S2-Ext, Y-Ext

Renewable Energy Policy Specialisation
Select 12 points from the following:
- PEC625 Energy Efficiency, System Analysis and Auditing — 4 pts
  Murd: S2-Ext, Y-Ext
- PEC626 Industrial and Commercial Energy Efficiency Technologies — 4 pts
  Murd: S2-Ext, Y-Ext
- PEC670 Energy Efficient Building Design — 4 pts
  Murd: S1-Int, S1-Ext
- PEC632 Greenhouse Science and Policy — 4 pts
  Murd: H-Ext, S1-Int, S1-Ext

- STP612 Ecologically Sustainable Development — 4 pts
  Murd: S1-Int, S1-Ext
- PEC587 Renewable Energy and Sustainable Development — 4 pts
  Murd: S2-Int, S2-Ext, Y-Ext
- PEC627 Advanced Energy Policy: Electricity Market Reform — 4 pts
  Murd: S1-Int, S2-Ext
- PEC597 Special Topics in Energy Studies: Life Cycle Analysis and Greenhouse Accounting — 4 pts
  Murd: S2-Int, S2-Ext, Y-Ext

Energy Efficiency Specialisation
Select 12 points from the following:
- PEC625 Energy Efficiency, System Analysis and Auditing — 4 pts
  Murd: S2-Ext, Y-Ext
- PEC626 Industrial and Commercial Energy Efficiency Technologies — 4 pts
  Murd: S2-Ext, Y-Ext
- PEC670 Energy Efficient Building Design — 4 pts
  Murd: S1-Int, S1-Ext
- PEC632 Greenhouse Science and Policy — 4 pts
  Murd: H-Ext, S1-Int, S1-Ext

Student who wish to complete other appropriate elective units from those available at the University may do so with the permission of the Program Chair. Online students may be more restricted in the electives they can take.
<table>
<thead>
<tr>
<th>Title</th>
<th>Master of Science in Environmental Architecture</th>
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<tr>
<td>Credit Points</td>
<td>48</td>
</tr>
<tr>
<td>Course Codes</td>
<td>M1133</td>
</tr>
<tr>
<td>Description</td>
<td>This course is designed to provide graduate architects with a sound training in state of the art principles of environmental architecture taking into account the art, science, technology and philosophy of ecologically sustainable building design. The course teaches, in a holistic manner, the key aspects of both the art of architecture and the science of climatology and ecologically sustainable building technology. A dissertation/thesis provides the opportunity for students to develop and apply their skills to real architectural problems.</td>
</tr>
<tr>
<td>Special Requirements</td>
<td>Internet Access</td>
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**Course Structure - 48 points**

**Core Units - 48 points**

**First Year - 24 points**

**Semester 1**

PEC670 Energy Efficient Building Design — 4 pts
Murdoch: S1-internal, S1-external

PEC632 Greenhouse Science and Policy — 4 pts
Murdoch: H-external, S1-internal, S1-external

STP645 Sustainable Urban Design -- 4 pts
Murdoch: AU1-internal, AU1-external
(Students studying completely externally may take STP623 Cities and Sustainability -- 4 pts [Murdoch: S1-internal, S1-external] in place of this unit.)

**Semester 2**

ENV512 Global and Regional Sustainability -- 4 pts
Murdoch: S2-internal, S2-external

**Second Year - 24 points**

**Full Year**

PEC673 Environmental Architecture Dissertation — 10 pts
Murdoch: Y-internal, Y-external

**Semester 1**

PEC593 Energy Economics — 4 pts
Murdoch: H-external, S1-internal, S1-external

PEC594 Energy Management — 4 pts
Murdoch: S1-internal, S1-external, S2-external, Y-external

**Semester 2**

PEC674 Innovation Management — 2 pts
Murdoch: S2-internal, S2-external

PEC675 Environmental Building Services — 4 pts
Murdoch: S2-internal, S2-external
APPENDIX B

Personal Study Plan

Course/Specialisation:  

<table>
<thead>
<tr>
<th>YEAR</th>
<th>SEMESTER 1</th>
<th>SEMESTER 2</th>
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</thead>
<tbody>
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<tr>
<td>4</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
APPENDIX C

Program Chair & Academic Contact Details

<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
<th>Phone Number</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr Gareth Lee</td>
<td>Program Chair</td>
<td>+618 9360 6098</td>
<td>PhSc/3.025D</td>
</tr>
<tr>
<td>Dr Trevor Pryor</td>
<td>Program Chair</td>
<td>+618 9360 2416</td>
<td>PhSc/2.041</td>
</tr>
<tr>
<td>Dr Nimal Subasinghe</td>
<td>Program Chair</td>
<td>+618 9360 2568</td>
<td>S&amp;C/2.037</td>
</tr>
</tbody>
</table>

Correct at time of printing. For the most up-to-date list of Academic contacts, please consult: http://www.murdoch.edu.au/contacts/academic/

APPENDIX D

Enrolment Enquiries

Enrolment advice can be sought from either the Program Chair or your Faculty Student Administration staff member.
Annette Connolly, Faculty Student Administration

a.connolly@murdoch.edu.au
Education and Humanities Building Room 2.002
p: 08 9360 6268
http://www.murdoch.edu.au/fsa/

The New Students website (http://www.murdoch.edu.au/students/new/) will also assist you with links to enrolment procedures, Fees, Orientation and Services and Facilities.
## APPENDIX E

### Handy Contacts and Websites

<table>
<thead>
<tr>
<th>Need help with:-</th>
<th>Contact</th>
<th>Email</th>
<th>Phone (+618)</th>
<th>Location Murdoch Campus</th>
</tr>
</thead>
<tbody>
<tr>
<td>IT/MyInfo</td>
<td>IT Service Desk</td>
<td><a href="mailto:itservicedesk@murdoch.edu.au">itservicedesk@murdoch.edu.au</a></td>
<td>9360 2000</td>
<td>Library (north) Level 2</td>
</tr>
<tr>
<td>Student ID cards</td>
<td>IT Service Desk</td>
<td><a href="mailto:itservicedesk@murdoch.edu.au">itservicedesk@murdoch.edu.au</a></td>
<td>9360 2000</td>
<td>Library (north) Level 2</td>
</tr>
<tr>
<td>Parking Permits</td>
<td>Student Service Centre</td>
<td><a href="mailto:parking@murdoch.edu.au">parking@murdoch.edu.au</a></td>
<td>9360 6127</td>
<td>Chancellery 2.020</td>
</tr>
<tr>
<td>HECS-Help and Fees</td>
<td>Student Service Centre</td>
<td><a href="mailto:fees@murdoch.edu.au">fees@murdoch.edu.au</a></td>
<td>9360 6127</td>
<td>Chancellery 2.020</td>
</tr>
<tr>
<td>Books/Unit materials</td>
<td>Bookshop</td>
<td><a href="mailto:bookshop@murdoch.edu.au">bookshop@murdoch.edu.au</a></td>
<td>9360 2540</td>
<td>Refectory 2.051</td>
</tr>
<tr>
<td>International Students</td>
<td>Murdoch International</td>
<td><a href="mailto:internat@murdoch.edu.au">internat@murdoch.edu.au</a></td>
<td>9360 6770</td>
<td>Senate 1.001</td>
</tr>
<tr>
<td>Advanced Standing – Credit &amp; Exemptions</td>
<td>Mr Allan Wong (Domestic Students) Mr John Tan (International Stud.)</td>
<td><a href="mailto:A.Wong@murdoch.edu.au">A.Wong@murdoch.edu.au</a> <a href="mailto:J.Tan@murdoch.edu.au">J.Tan@murdoch.edu.au</a></td>
<td>9360 6352 9360 6010</td>
<td>Chancellery 2.027 Senate 1.001</td>
</tr>
</tbody>
</table>

### Handy Websites

<table>
<thead>
<tr>
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<th>URL</th>
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</thead>
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<tr>
<td>New Student home page</td>
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<td>Dates and Deadlines</td>
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<td>Faculty Student Administration</td>
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</tr>
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<td>Guild of Students</td>
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</tr>
<tr>
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</tr>
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