School of Environmental Science

- Ecotourism (BSc)
- Environmental Engineering (BE)
- Environmental Management (BEnvMan)
- Environmental Restoration (BSc)
- Environmental Science (BSc)
- Environmental Technology (BSc)
- Marine Science (BSc)

Murdoch University
90 South Street, Murdoch
Western Australia 6150
Telephone: 08 9360 6000

CRICOS Provider Code: 00125J

enrolment 2009 mid year
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Step 7: Important Information and FAQs

Full Course Description

- Ecotourism (BSc)
- Environmental Engineering (BE)
- Environmental Management (BEnvMan)
- Environmental Restoration (BSc)
- Environmental Science (BEnvSc, BSc)
- Environmental Technology (BSc)
- Marine Science (BSc)
Checklist of Units and Prerequisites

- Ecotourism (BSc)
- Environmental Engineering (BE)
- Environmental Management (BEnvMan)
- Environmental Restoration (BSc)
- Environmental Science (BEnvSc, BSc)
- Environmental Technology (BSc)
- Marine Science (BSc)

Sample Enrolments

- Ecotourism (BSc)
- Environmental Engineering (BE)
- Environmental Management (BEnvMan)
- Environmental Restoration (BSc)
- Environmental Science (BEnvSc, BSc)
- Environmental Technology (BSc)
- Marine Science (BSc)

Foundation Units
Personal Study Plan
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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. Additional enrolment assistance is available via the “New Students” website at: http://www.murdoch.edu.au/students/new/.

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** Seek 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 student” tab on 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 Course/Major Description**
The description will provide you with information about your course and major, including recommended double majors and minors and can be found later in this booklet.

☐ **Review your Checklist and Unit Prerequisites**
The Checklist is the structure of your course and the units you need to complete for your degree. It includes required prerequisites to help you plan the order of your units and can be found later in this booklet.

☐ **Review the Sample Enrolments**
The Sample Enrolment provides you with a pre-made study plan for your major. Some majors provide you with a choice of units in the requirement, so you may wish to create your own study plan. These can be found later in this booklet.

☐ **Choose your units …**
…you want to enrol in for the current year by using the information you have reviewed above from the Checklist and Sample Enrolment. You can find out about each unit in the Handbook online [http://handbook.murdoch.edu.au/units/](http://handbook.murdoch.edu.au/units/).

*Part I units (100-level units)* are taken in the first year. Most of the Part I units are worth 3 points each, this means you will be taking 8 units in your first year, being 4 units each semester.

*Part II units (200-level and above units)* are taken in the second or third year of study. Most Part II units are worth 4 points each, this means that you will be taking 6 Part II units in each of the 2nd and 3rd years, being 3 units each semester.

*General Electives* are ‘free choice’ units. You can use these units to meet the requirements of a second major or a minor. Use the Handbook online [http://handbook.murdoch.edu.au/](http://handbook.murdoch.edu.au/) to help you search for these and for individual unit prerequisites.

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

You can check the timetable for the units you have chosen for your first semester of 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 Course Advice Session(s) where staff will be available to answer your queries about your course. See Step 5 for dates and time of your session.

☐ 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 Enrolment Enquires later in this booklet. Sample enrolments of popular double majors can be found on the Faculty Student Administration website http://www.murdoch.edu.au/fsa/.

☐ Now you are ready to enrol …
STEP 3

Complete Your Enrolment

☐ Log in to MyMurdoch ...
   … Goto the Murdoch homepage, select “Current Students” right at the top of the page then select “MyMurdoch” to access your portal to Murdoch’s online facilities using your Murdoch User Name (Student Number) and Murdoch Password (as per Step 1).

☐ Log in to MyInfo
   Click on the MyInfo tab and then click on the MyInfo Login icon and use your Murdoch User Name (Student Number) and Murdoch Password (as per Step 1). And yes, the University is working on this double login 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 (majors, minors) enrolment and activity signup. You can also update your personal details (home and postal addresses, email address etc).

☐ Go to Self Enrolment Steps
   Within MyInfo 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 – statement regarding your use of MyInfo
   ☐ Services – opportunity to join the Murdoch Student Guild or validate your Transperth Smartrider.
   ☐ Government Statistics – Government requirement to assist in forward planning.

☐ 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 (Majors and Minors)
   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 and major you are currently enrolled under.
What are Unit Sets? This is the name given to Majors and Minors 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 (eg. Bachelor of Arts in History, with Primary Unit set of History).

- **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.

- **Information**
  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.

- **Information**
  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 MyInfo 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

What are Activities? Activities are the collective term used for lectures, tutorials, workshops, seminars and laboratories and only relate to internal units. There are no Activities for external units.

Sign up for your Activities
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. 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 Semester.

View Personal Calendar
Click on the MyUnits page of MyMurdoch to see all of your activities displayed on your Personal Calendar, in a week-by-week format. Please note that it may take 15 minutes or more for any enrolment changes to be reflected in the calendar.
Your Program Chair(s) will advise you on the requirements of your course and answer any unit selection and enrolment queries at your Course Advice Session held during Orientation Week. This session will provide you with valuable information relating to your course, units and enrolment options and it is therefore essential that you attend.

☐ When and Where is your Course Advice Session?

The full Orientation Week program is available online and can be viewed at http://www.murdoch.edu.au/students/new/orientation.html

For further information on all events and sessions occurring during Orientation week see the timetable at: http://www.murdoch.edu.au/students/new/orientation.html.

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 course advice venues are.

Help If you are still unsure of your choice of units after you have read this booklet and you have attended the relevant Course Advice Session you can email or phone your Faculty Student Administration staff member with details of your query.
The Orientation program has been designed to meet your specific needs as a new student to Murdoch University and will help you with a smooth transition to University studies. To experience and benefit from all the advice that is available during Orientation week you would be required to attend the 2 days scheduled for you. We encourage you to take advantage of this time to familiarise yourself with the campus, the support services available and to make friends and enjoy yourselves.

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

Orientation Week will commence on Sunday 26th July. Closer to this date you will be sent detailed information on the events and session happening during Orientation Week that you need to attend.
Important Information and FAQs

General Electives – What are they, where can I find them? A General Elective is a unit that is not a required unit (that is not a Core Unit or Specified Elective) for your major or course. It can be selected from outside your primary area of study and may form part of a second major or minor. There is no single ‘list’ of General Electives. You can select General Electives by taking the units that make up a second major or minor or by looking at the online Handbook complete list of units available [http://handbook.murdoch.edu.au/units/](http://handbook.murdoch.edu.au/units/).

Units – Which units do I need to do and how do I know that I have enrolled in the right units? Your Checklist of Units and Prerequisites and Sample Enrolment in this booklet show you which are your required units. The Sample Enrolments for other majors are available from the Faculty Student Administration website [http://www.murdoch.edu.au/fsa/](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.

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 the 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 B1137). 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.
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 end of Week 1 of Semester. For external units, the mail-out of unit materials will commence two weeks prior to the start of each Semester, so you should enrol in your external units as soon as possible. If you enrol in an external unit 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 - see http://www.murdoch.edu.au/admin/legsln/

How do I add or change my course, major or minor? To change your course entirely will require a course transfer which can only be applied for near the end of each semester. The relevant course transfer form, Amend Course Details, can be found at http://www.oss.murdoch.edu.au/forms/. Most second majors and minors can be added or changed under ‘Unit Sets’ in the ‘Self Enrolment Steps’ on the MyInfo part of MyMurdoch.

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://www.student.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 the MyInfo page of MyMurdoch up to date so that you receive important communications from your lecturers and the University.

Cancellation of Courses, Minors and Units The University reserves the right to cancel, without notice, any course, major, minor 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).
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<td><strong>Environmental Management (BEnvMan) – Course Description</strong></td>
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<td><strong>Environmental Restoration (BSc) – Course Description</strong></td>
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<td><strong>Environmental Science (BEnvSc, BSc) – Course Description</strong></td>
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| **Qualifications** | Bachelor of Environmental Science (BEnvSc)  
Bachelor of Science (BSc) in Environmental Science |
<p>| <strong>Credit Points for Course</strong> | 72 (BSc (Environmental Science)) or 96 (BEnvSc) |
| <strong>Course Codes</strong> | B1038; B1039 |
| <strong>Description</strong> | Murdoch University offers two Environmental Science majors at undergraduate level. Both majors are interdisciplinary in nature and are designed to enable graduates to contribute, as individuals and through their employment, to the identification and resolution of environmental problems. The majors are structured around the themes of air, water, land, biota, people, policy and technology with an integrated environmental management perspective. While Environmental Science students are trained in the scientific approach to environmental management, they are also expected to acquire a wider perspective to appreciate the human factors involved in the formulation and implementation of environmental policy. |
| <strong>Special Requirements</strong> | Both degrees are available externally, although some attendance is required in individual units. |
| <strong>Recommended Double Majors</strong> | Biological Sciences (BSc); Conservation and Wildlife Biology (BSc); Law (LLB) + Other Bachelor Degree [can be completed as a double degree (LLB and BSc/BEnvSc); see the separate description in this section of the Handbook]; Marine Science (BSc) |
| <strong>Recommended Minors</strong> | Animal Biology; Applied Statistics; Conservation Biology; Energy Studies; Environmental Issues; Environmental Policy; Marine Biology; Mathematical Modelling; Plant Biology; Pollution Science; Science Communication; Sustainable Development |
| <strong>Excluded Minors</strong> | Ecosystem Management |</p>
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ECOTOURISM (BSC) CHECKLIST FOR UNITS AND PREREQUISITES 2009

School of Environmental Science
Bachelor of Science (BSc) in Ecotourism

Course Structure — 72 points

Part I — 24 points

☐ Foundation Unit — 3 points
Select one Foundation Unit from the Foundation Units section in this Handbook.

Core Units — 12 points

☐ BIO103 Environmental Biology — 3 pts
  Murd: S1-Int, S1-Ext
☐ ENV102 Introduction to Environmental Science — 3 pts
  Murd: S1-Int, S1-Ext, S2-Int
☐ TOU101 Introduction to Tourism Systems — 3 pts
  Murd: S1-Int, S1-Ext
☐ TOU102 Introduction to Travel and Tourism — 3 pts
  Murd: S2-Int, S2-Ext

General Electives — 9 points
Select from any 100-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using these points to meet the requirements of a second major or minor. Recommended double major(s): Biological Sciences (BSc); Conservation and Wildlife Biology (BSc); Environmental Science (BEnvSc, BSc); Marine Science (BSc); Tourism (BTour).

Part II — 48 points

Core Units — 24 points

☐ ENV279 Nature-Based Tourism — 4 pts
  Murd: S1-Int, S1-Ext
☐ ENV268 Ecology — 4 pts
  Murd: S2-Int, S2-Ext
☐ ENV324 Environmental Restoration — 4 pts
  Murd: S2-Int, S2-Ext
☐ TOU201 Sustainable Tourism — 4 pts
  Murd: S1-Int, S1-Ext
☐ TOU301 Tourism Policy and Planning — 4 pts
  Murd: S1-Int, S1-Ext
☐ TOU303 Tourism Management — 4 pts
  Murd: S2-Int

General Electives — 24 points
Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using these points to meet the requirements of a second major or minor.

PREREQUISITES — ECOTOURISM (BSC)

☐ Ecology (ENV268)
  Prerequisites: BIO103 Environmental Biology or the Bachelor of Applied Science in Environmental Science.
☐ Environmental Biology (BIO103)
  Prerequisites: Nil. Note: Ext students enrolled in BIO103 must be resident in Australia due to customs restrictions which prevent the forwarding of the practical kit to overseas destinations.
☐ Environmental Restoration (ENV324)
  Prerequisites: ENV268 Ecology or enrolment in a postgraduate course from the School of Environmental Science.
☐ Introduction to Environmental Science (ENV102)
  Prerequisites: Nil.
☐ Introduction to Tourism Systems (TOU101)
  Prerequisites: Nil.
☐ Introduction to Travel and Tourism (TOU102)
  Prerequisites: Nil.
☐ Nature-Based Tourism (ENV279)
  Prerequisites: Nil.
☐ Sustainable Tourism (TOU201)
  Prerequisites: TOU102 Introduction to Travel and Tourism or TOU101 Introduction to Tourism Systems or enrolment in Postgraduate studies in Tourism.
  Recommended: STP108 Introduction to Sustainable Development.
☐ Tourism Management (TOU303)
  Prerequisites: S116/TOU101 Introduction to Tourism Systems or S115/TOU102 Introduction to Travel and Tourism, R208/TOU201 Sustainable Tourism; Highly recommended: C145/BUS145 Principles of Management and completion of at least 24 points of Part II level units.
☐ Tourism Policy and Planning (TOU301)
  Prerequisites: TOU102 Introduction to Travel and Tourism, TOU101 Introduction to Tourism Systems, TOU201 Sustainable Tourism or enrolment in Postgraduate Tourism studies.
ENVIRONMENTAL ENGINEERING (BE) CHECKLIST FOR UNITS AND PREREQUISITES 2009

School of Environmental Science
Bachelor of Engineering (BE) in Environmental Engineering

Course Structure — 96 points

Course Prerequisites

Chemistry Background
Students may need to complete one prerequisite unit depending on their background in chemistry and their final scaled score in TEE Chemistry within the past three years. TEE Chemistry with a final scaled score of 60% or more OR PEC140 Introduction to Chemistry — 3 pts [Murd: S1-Int, S1-Ext, S2-Int, S2-Ext]. Students who have completed previous chemistry not stated above should consult the Program Chair for clarification of their enrolment requirements.

Mathematics Background
Students may need to complete up to two prerequisite units depending on their background in mathematics and their final scaled score in either TEE Calculus, or TEE Applicable Mathematics and Year 11 Introduction to Calculus within the past three years. TEE Calculus with a final scaled score of 55% or more OR TEE Applicable Mathematics with a final scaled score of 55% or more and Year 11 Introduction to Calculus and MAS182 Applied Mathematics — 3 pts [Murd: S1-Int, S1-Ext, S2-Int, S2-Ext] OR MAS164 Fundamentals of Mathematics — 3 pts [Murd: S1-Int, S1-Ext, S2-Int, S2-Ext] and MAS182 Applied Mathematics — 3 pts [Murd: S1-Int, S1-Ext, S2-Int, S2-Ext]. Students who have completed previous mathematics not stated above should consult the Program Chair for clarification of their enrolment requirements.

Physics Background
Students may need to complete one prerequisite unit depending on their background in physics and their final scaled score in TEE Physics within the past three years. TEE Physics with a final scaled score of 60% or more OR PEC120 General Physics — 3 pts [Murd: S1-Int, S1-Ext, S2-Int, S2-Ext]. Students who have completed previous physics not stated above should consult the Program Chair for clarification of their enrolment requirements.

Part I — 24 points

- **Foundation Unit — 3 points**
  Select one Foundation Unit from the Foundation Units section in this Handbook.

- **Core Units — 21 points**
  - BIO103 Environmental Biology — 3 pts
    Murd: S1-Int, S1-Ext
  - ENV102 Introduction to Environmental Science — 3 pts
    Murd: S1-Int, S1-Ext, S2-Int
  - PEC144 Chemical Principles — 3 pts
    Murd: S1-Int, S1-Ext, S2-Int, S2-Ext
  - ENG141 Design Concepts in Science and Engineering — 3 pts
    Murd: S1-Int
  - MAS161 Calculus and Matrix Algebra — 3 pts
    Murd: S2-Int, S2-Ext
  - ENG109 Computing for Scientists and Engineers — 3 pts
    Murd: S2-Int
  - PEC152 Principles of Physics — 3 pts
    Murd: S1-Int, S1-Ext, S2-Int, S2-Ext

Part II — 72 points

- **Core Units — 68 points**
  - ENV211 Pollution and its Control — 4 pts
    Murd: S1-Int, S1-Ext
  - ENV206 Water Conservation and Auditing — 4 pts
    Murd: S1-Int, S1-Ext
  - ENV268 Ecology — 4 pts
    Murd: S2-Int, S2-Ext
  - ENV210 Environmental Technology for Sustainable Development — 4 pts
    Murd: S2-Int, S2-Ext
  - ENV281 Water and Earth Science — 4 pts
    Murd: S1-Int, S1-Ext
  - ENV318 Sustainable Water Systems — 4 pts
    Murd: S2-Int, S2-Ext
  - ENV319 Environmental Management — 4 pts
    Murd: S2-Int, S2-Ext
  - ENG241 Principles of Process Engineering — 4 pts
    Murd: S1-Int
  - MAS284 Applied Statistics and Process Management — 4 pts
    Murd: S1-Int, S1-Ext, S2-Int, S2-Ext
  - ENG267 Control Systems and Process Dynamics — 4 pts
    Murd: S2-Int, W-Int
  - ENG352 Energy Supply Systems — 4 pts
    Murd: S2-Int, Y-Ext
  - MAS208 Mathematical Modelling — 4 pts
    Murd: S2-Int, S2-Ext
  - ENG453 Engineering Law, Management and Ethics — 4 pts
    Murd: S1-Int, SUM-Int
  - ENG428 Engineering Design — 4 pts
    Murd: S1-Int, S2-Int
  - ENG450 Engineering Internship — 12 pts
    Murd: H-Int, S1-Int, S2-Int, SUM-Int, WU3-Int, Y-Int
  - ENG460 Engineering Thesis — 12 pts
    Murd: H-Int, S1-Int, S2-Int, SUM-Int, WU3-Int, Y-Ext

  - **General Electives — 4 points**

  Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites.
PREREQUISITES — ENVIRONMENTAL ENGINEERING (BE)

☐ Applied Mathematics (MAS182)
Prerequisites: M164/MAS164 Fundamentals of Mathematics or at least a pass in the Year 11 course Introduction to Calculus together with a final scaled score of 55% or more in TEE Applicable Mathematics.

☐ Applied Statistics and Process Management (MAS284)
Prerequisites: A basic understanding of simple descriptive statistics and elementary probability.

☐ Calculus and Matrix Algebra (MAS161)
Prerequisites: M182/MAS182 Applied Mathematics or a final scaled score of 55% or more in TEE Calculus or equivalent.

☐ Chemical Principles (PEC144)
Prerequisites: A thorough knowledge of Year 12 secondary-level chemistry is assumed. Students who did not achieve a final scaled score of 60% or more in TEE Chemistry within the three years immediately preceding enrolment are required to pass PEC140 Introduction to Chemistry prior to enrolling. Students who are unsure of their status should consult the Chemistry Program Chair.

☐ Computing for Scientists and Engineers (ENG109)
Prerequisites: Nil.

☐ Control Systems and Process Dynamics (ENG267)
Prerequisites: ENG109 Computing for Scientists and Engineers; PEC152 Principles of Physics; MAS161 Calculus and Matrix Algebra or co-requisite MAS208 Mathematical Modelling.

☐ Design Concepts in Science and Engineering (ENG141)
Prerequisites: Nil.

☐ Ecology (ENV268)
Prerequisites: BIO103 Environmental Biology or the Bachelor of Applied Science in Environmental Science.

☐ Energy Supply Systems (ENG352)

☐ Engineering Design (ENG428)
Prerequisites: Completion of all required third year Engineering units.

☐ Engineering Internship (ENG450)
Prerequisites: Permission of Engineering Program Chair.

☐ Engineering Law, Management and Ethics (ENG453)
Prerequisites: Completion of 40 or more points at Part II.

☐ Engineering Thesis (ENG460)
Prerequisites: Permission of Engineering Program Chair.

☐ Environmental Biology (BIO103)
Prerequisites: Nil. Note: Ext students enrolled in BIO103 must be resident in Australia due to customs restrictions which prevent the forwarding of the practical kit to overseas destinations.

☐ Environmental Management (ENV319)
Prerequisites: Completion of at least 18 points at Part II or enrolment in a postgraduate course from the School of Environmental Science or enrolment in the Bachelor of Applied Science in Environmental Science.

☐ Environmental Technology for Sustainable Development (ENV210)
Prerequisites: ENV104 Australian Environmental Issues, or ENV102 Introduction to Environmental Science.

☐ Fundamentals of Mathematics (MAS164)
Prerequisites: Nil.

☐ General Physics (PEC120)
Prerequisites: Nil. TEE Applicable Mathematics or MAS164 Fundamentals of Mathematics are strongly recommended and may be taken concurrently.

☐ Introduction to Chemistry (PEC140)
Prerequisites: This unit is for students with a weak background in chemistry. Students with a final scaled score of more than 60% in TEE Chemistry within the past three years may be excluded from the unit. A knowledge of basic mathematics will be assumed.

☐ Introduction to Environmental Science (ENV102)
Prerequisites: Nil.

☐ Mathematical Modelling (MAS208)
Prerequisites: M182/MAS182 Applied Mathematics or M161/MAS161 Calculus and Matrix Algebra.

☐ Pollution and its Control (ENV211)
Prerequisites: ENV102 Introduction to Environmental Science and PEC144 Chemical Principles or PEC115 Chemistry for Environmental Science or equivalent, or enrolment in the Bachelor of Technology in Environmental Technology or the Bachelor of Applied Science in Environmental Science.

☐ Principles of Physics (PEC152)
Prerequisites: Concurrent enrolment in MAS182 Applied Mathematics or MAS161 Calculus and Matrix Algebra; plus a final scaled score of 60% or more in TEE Physics or M120/PEC120 General Physics.

☐ Principles of Process Engineering (ENG241)
Prerequisites: MAS182 Applied Mathematics or MAS161 Calculus and Matrix Algebra; PEC140 Introduction to Chemistry or PEC144 Chemical Principles.

☐ Sustainable Water Systems (ENV318)
Prerequisites: ENV206 Water Conservation and Auditing OR ENV211 Pollution and its Control OR ENV210 Environmental Technology for Sustainable Development.

☐ Water and Earth Science (ENV281)
Prerequisites: A thorough knowledge of Year 12 secondary-level chemistry is assumed.

☐ Water Conservation and Auditing (ENV206)
Prerequisites: Nil.
ENVIRONMENTAL MANAGEMENT (BENMAN) CHECKLIST FOR UNITS AND PREREQUISITES 2009

School of Environmental Science
Bachelor of Environmental Management (BEnvMan)

Course Structure — 72 points

Part I — 24 points

- **Foundation Unit — 3 points**
  Select one Foundation Unit from the Foundation Units section in this Handbook.

- **Core Units — 12 points**
  - ENV102 Introduction to Environmental Science — 3 pts  
    Murd: S1-Int, S1-Ext, S2-Int
  - BIO103 Environmental Biology — 3 pts  
    Murd: S1-Int, S1-Ext
  - MAS183 Statistical Data Analysis and Databases — 3 pts  
    Murd: S1-Int, S1-Ext, S2-Int, S2-Ext
  - BUS145 Principles of Management — 3 pts  
    Murd: F3-Int (full fee-paying), S1-Int, S2-Int

  OR

- STP108 Introduction to Sustainable Development — 3 pts  
  Murd: S1-Int, S1-Ext, S2-Ext

- **General Electives — 9 points**
  Select from any 100-level units offered by the University, subject to individual unit prerequisites.

  Students are advised to consider using these points to meet the requirements of a second major or minor.

  Recommended double major(s): Ecotourism (BSc); Environmental Science (BEnvSc, BSc); Management (BCom); Marine Science (BSc).

  Recommended:
  - BUS161 Introduction to Economics — 3 pts  
    Murd: F3-Int (full fee-paying), S1-Int, S1-Ext, S2-Int, S2-Ext

Part II — 48 points

- **Core Units — 24 points**
  - ENV222 Pollutants and the Human Environment — 4 pts  
    Murd: S1-Int, S1-Ext
  - ENV228 Environmental Policy and Law — 4 pts  
    Murd: S2-Int, S2-Ext
  - ENV268 Ecology — 4 pts  
    Murd: S2-Int, S2-Ext
  - ENV212 Global and Regional Sustainability — 4 pts  
    Murd: S2-Int, S2-Ext
  - ENV206 Water Conservation and Auditing — 4 pts  
    Murd: S1-Int, S1-Ext
  - ENV319 Environmental Management — 4 pts  
    Murd: S2-Int, S2-Ext

  OR

  - ENV203 GIS for Environmental Management and Planning — 4 pts  
    Murd: S2-Int, S2-Ext

- **General Electives — 24 points**
  Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites.

  Recommended:
  - ENV316 Environmental Policy for the 21st Century — 4 pts  
    Murd: S1-Int, S1-Ext

PREREQUISITES — ENVIRONMENTAL MANAGEMENT

- Ecology (ENV268)
  Prerequisites: BIO103 Environmental Biology or the Bachelor of Applied Science in Environmental Science.

- Environmental Biology (BIO103)
  Prerequisites: Nil. Note: Ext students enrolled in BIO103 must be resident in Australia due to customs restrictions which prevent the forwarding of the practical kit to overseas destinations.

- Environmental Management (ENV319)
  Prerequisites: Completion of at least 18 points at Part II or enrolment in a postgraduate course from the School of Environmental Science or enrolment in the Bachelor of Applied Science in Environmental Science.

- Environmental Policy and Law (ENV228)
  Prerequisites: Nil.

- Environmental Policy for the 21st Century (ENV316)
  Prerequisites: N228/ENV228 Environmental Policy and Law.

- GIS for Environmental Management and Planning (ENV203)
  Prerequisites: Completion of 24 points at Part I.

- Global and Regional Sustainability (ENV212)
  Prerequisites: Nil.

- Introduction to Economics (BUS161)
  Prerequisites: Nil. This unit assumes no prior knowledge of economics and is a prerequisite for many Part II units in Economics.

- Introduction to Environmental Science (ENV102)
  Prerequisites: Nil.

- Introduction to Sustainable Development (STP108)
  Prerequisites: Nil.

- Pollutants and the Human Environment (ENV222)
  Prerequisites: Nil.

- Principles of Management (BUS145)
  Prerequisites: Nil.

- Statistical Data Analysis and Databases (MAS183)
  Prerequisites: Nil.

- Water Conservation and Auditing (ENV206)
  Prerequisites: Nil.
ENVIRONMENTAL RESTORATION (BSC) CHECKLIST FOR UNITS AND PREREQUISITES 2009

School of Environmental Science
Bachelor of Science (BSc) in Environmental Restoration

Course Structure — 72 points

Course Prerequisites

Chemistry Background

Students may need to complete one prerequisite unit depending on their background in chemistry and their final scaled score in TEE Chemistry within the past three years. TEE Chemistry with a final scaled score of 60% or more OR PEC140 Introduction to Chemistry — 3 pts Murd: S1-Int, S1-Ext, S2-Int, S2-Ext. Students who have completed previous chemistry not stated above should consult the Program Chair for clarification of their enrolment requirements.

Part I — 24 points

- **Foundation Unit — 3 points**
  Select one Foundation Unit from the Foundation Units section in this Handbook.

- **Core Units — 12 points**
  - ENV102 Introduction to Environmental Science — 3 pts Murd: S1-Int, S1-Ext, S2-Int
  - BIO103 Environmental Biology — 3 pts Murd: S1-Int, S1-Ext
  - MAS183 Statistical Data Analysis and Databases — 3 pts Murd: S1-Int, S1-Ext, S2-Int, S2-Ext
  - ENV104 Australian Environmental Issues — 3 pts Murd: S2-Int, S2-Ext

- **General Electives — 9 points**
  Select from any 100-level units offered by the University, subject to individual unit prerequisites. Any Murd unit taken as a course prerequisite will be considered as a Part I General Elective. Students are advised to consider using these points to meet the requirements of a second major or minor. Recommended double major(s): Biological Sciences (BSc); Conservation and Wildlife Biology (BSc); Environmental Science (BEnvSc, BSc); Marine Science (BSc); Sustainable Development (BA, BSc).

Part II — 48 points

- **Core Units — 24 points**
  - ENV268 Ecology — 4 pts Murd: S2-Int, S2-Ext
  - ENV228 Environmental Policy and Law — 4 pts Murd: S2-Int, S2-Ext
  - ENV281 Water and Earth Science — 4 pts Murd: S1-Int, S1-Ext
  - ENV316 Environmental Policy for the 21st Century — 4 pts Murd: S1-Int, S1-Ext
  - ENV310 Land Management — 4 pts Murd: S1-Int, S1-Ext
  - ENV324 Environmental Restoration — 4 pts Murd: S2-Int, S2-Ext

- **General Electives — 24 points**
  Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites.

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**PREREQUISITES — ENVIRONMENTAL RESTORATION**

- **Australian Environmental Issues (ENV104)**
  Prerequisites: Nil.

- **Ecology (ENV268)**
  Prerequisites: BIO103 Environmental Biology or the Bachelor of Applied Science in Environmental Science.

- **Environmental Biology (BIO103)**
  Prerequisites: Nil. Note: Ext students enrolled in BIO103 must be resident in Australia due to customs restrictions which prevent the forwarding of the practical kit to overseas destinations.

- **Environmental Policy and Law (ENV228)**
  Prerequisites: Nil.

- **Environmental Policy for the 21st Century (ENV316)**
  Prerequisites: N228/ENV228 Environmental Policy and Law.

- **Environmental Restoration (ENV324)**
  Prerequisites: ENV268 Ecology or enrolment in a postgraduate course from the School of Environmental Science.

- **Introduction to Chemistry (PEC140)**
  Prerequisites: This unit is for students with a weak background in chemistry. Students with a final scaled score of more than 60% in TEE Chemistry within the past three years may be excluded from the unit. A knowledge of basic mathematics will be assumed.

- **Introduction to Environmental Science (ENV102)**
  Prerequisites: Nil.

- **Land Management (ENV310)**
  Prerequisites: N268/ENV268 Ecology and N281/ENV281 Water and Earth Science or enrolment in a postgraduate course from the School of Environmental Science.

- **Statistical Data Analysis and Databases (MAS183)**
  Prerequisites: Nil.

- **Water and Earth Science (ENV281)**
  Prerequisites: A thorough knowledge of Year 12 secondary-level chemistry is assumed.
ENVIRONMENTAL SCIENCE (BENVSC, BSC) CHECKLIST FOR UNITS AND PREREQUISITES 2009

School of Environmental Science
Bachelor of Environmental Science (BEnvSc) Bachelor of Science (BSc) in Environmental Science

Course Structure — BSc (Environmental Science), 72 points; BEnvSc, 96 points

Course Prerequisites

Chemistry Background

Students may need to complete one prerequisite unit depending on their background in chemistry and their final scaled score in TEE Chemistry within the past three years. TEE Chemistry with a final scaled score of 60% or more OR PEC140 Introduction to Chemistry — 3 pts Murd: S1-Int, S1-Ext, S2-Int, S2-Ext. Students who have completed previous chemistry not stated above should consult the Program Chair for clarification of their enrolment requirements.

Part I — 24 points

- **Foundation Unit** — 3 points
  Select one Foundation Unit from the Foundation Units section in this Handbook.

- **Core Units** — 12 points
  - BIO103 Environmental Biology — 3 pts Murd: S1-Int, S1-Ext
  - ENV102 Introduction to Environmental Science — 3 pts Murd: S1-Int, S1-Ext, S2-Int
  - MAS183 Statistical Data Analysis and Databases — 3 pts Murd: S1-Int, S1-Ext, S2-Int, S2-Ext
  - PEC144 Chemical Principles — 3 pts Murd: S1-Int, S1-Ext, S2-Int, S2-Ext

- **General Electives** — 9 points
  Select from any 100-level units offered by the University, subject to individual unit prerequisites. Any Murd unit taken as a course prerequisite will be considered as a Part I General Elective.

  Students are advised to consider using these points to meet the requirements of a second major or minor. Recommended double major(s): Biological Sciences (BSc); Conservation and Wildlife Biology (BSc); Law (LLB) + Other Bachelor Degree [can be completed as a double degree (LLB and BSc/BEnvSc); see the separate description in this section of the Handbook]; Marine Science (BSc).

  Recommended for students with limited computer literacy:
  - ICT105 Introduction to Information Technology — 3 pts Murd: S1-Int, S1-Ext, S2-Ext Peel: S2-Int Rock: S1-Int

Part II (BSc and BEnvSc) — 48 points

- **Core Units** — 28 points
  - ENV213 Atmospheric Science — 4 pts Murd: S1-Int, S1-Ext
  - ENV268 Ecology — 4 pts Murd: S2-Int, S2-Ext
  - ENV228 Environmental Policy and Law — 4 pts Murd: S2-Int, S2-Ext
  - ENV211 Pollution and its Control — 4 pts Murd: S1-Int, S1-Ext
  - ENV281 Water and Earth Science — 4 pts Murd: S1-Int, S1-Ext
  - ENV319 Environmental Management — 4 pts Murd: S2-Int, S2-Ext
  - ENV311 Managing Wetlands and Water — 4 pts Murd: S2-Int, S2-Ext

- **General Electives** — 20 points
  Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using these points to meet the requirements of a second major or minor. Recommended double major(s): Biological Sciences (BSc); Conservation and Wildlife Biology (BSc); Law (LLB) + Other Bachelor Degree [can be completed as a double degree (LLB and BSc/BEnvSc); see the separate description in this section of the Handbook]; Marine Science (BSc).

  Bachelor of Science students may wish to consider enrolment in ENV440 Environmental Science Internship — 12 pts [Murd: S1-Int, S2-Int, Y-Int]. Details are available from the Program Chair.

Part II (Year 4) (BEnvSc only) — 24 points

- **Core Units** — 20 to 24 points
  - ENV520 Principles of Environmental Impact Assessment — 4 pts Murd: S1-Int, S1-Ext
  - ENV505 Environmental Monitoring — 4 pts Murd: S2-Int, S2-Ext
  AND EITHER
  - ENV523 Environmental Science Research Methods — 4 pts Murd: S1-Int, S1-Ext

  OR
  - ENV440 Environmental Science Internship — 12 pts Murd: S1-Int, S2-Int, Y-Int
  AND one 400/500 level unit from the Environmental Science courses. Other units may be substituted with the permission of the Program Chair.
PREREQUISITES — ENVIRONMENTAL SCIENCE (BENVSC, BSC)

- Atmospheric Science (ENV213)
  Prerequisites: Nil.

- Chemical Principles (PEC144)
  Prerequisites: A thorough knowledge of Year 12 secondary-level chemistry is assumed. Students who did not achieve a final scaled score of 60% or more in TEE Chemistry within the three years immediately preceding enrolment are required to pass PEC140 Introduction to Chemistry prior to enrolling. Students who are unsure of their status should consult the Chemistry Program Chair.

- Ecology (ENV268)
  Prerequisites: BIO103 Environmental Biology or the Bachelor of Applied Science in Environmental Science.

- Environmental Biology (BIO103)
  Prerequisites: Nil. Note: Ext students enrolled in BIO103 must be resident in Australia due to customs restrictions which prevent the forwarding of the practical kit to overseas destinations.

- Environmental Management (ENV319)
  Prerequisites: Completion of at least 18 points at Part II or enrolment in a postgraduate course from the School of Environmental Science or enrolment in the Bachelor of Applied Science in Environmental Science.

- Environmental Monitoring (ENV505)
  Prerequisites: Undergraduates: ENV102 Introduction to Environmental Science and ENV268 Ecology.
  Postgraduates: Enrolment in a postgraduate science course or MA in Education for Sustainability.

- Environmental Policy and Law (ENV228)
  Prerequisites: Nil.

- Environmental Science Internship (ENV440)
  Prerequisites: Acceptance into the Science Internship Program and approval by the Program Chair.

- Environmental Science Project (ENV421)
  Prerequisites: Enrolment in the BEnvSc with credit of 48 or more Part II points, or enrolment in PgCertEnvMan or PgDipEnvMan. Completion of or concurrent enrolment in ENV523 Environmental Science Research Methods, or completion of ENV423 Environmental Science Research Methods is required.

- Environmental Science Research Methods (ENV523)
  Prerequisites: Enrolment in fourth year of BEnvSc, BSc (Environmental Science) (Honours), MSc (Environmental Science), MPhil, PhD or enrolment in a postgraduate course from the School of Environmental Science. This unit should be taken at the beginning of enrolment in the prerequisite majors/courses.

- Introduction to Chemistry (PEC140)
  Prerequisites: This unit is for students with a weak background in chemistry. Students with a final scaled score of more than 60% in TEE Chemistry within the past three years may be excluded from the unit. A knowledge of basic mathematics will be assumed.

- Introduction to Environmental Science (ENV102)
  Prerequisites: Nil.

- Introduction to Information Technology (ICT105)
  Prerequisites: Nil. Ext students must have independent access to adequate computing facilities or access to campus computers by attendance.

- Managing Wetlands and Water (ENV311)
  Prerequisites: Completion of or concurrent enrolment in ENV268 Ecology or enrolment in the Bachelor of Applied Science in Environmental Science.

- Pollution and its Control (ENV211)
  Prerequisites: ENV102 Introduction to Environmental Science and PEC144 Chemical Principles or PEC115 Chemistry for Environmental Science or equivalent, or enrolment in the Bachelor of Technology in Environmental Technology or the Bachelor of Applied Science in Environmental Science.

- Principles of Environmental Impact Assessment (ENV520)
  Prerequisites: Undergraduates: completion of all of the 200-level required units in the BSc (Environmental Science).
  Postgraduates: enrolment in a postgraduate environmental science, or similar, course.

- Statistical Data Analysis and Databases (MAS183)
  Prerequisites: Nil.

- Water and Earth Science (ENV281)
  Prerequisites: A thorough knowledge of Year 12 secondary-level chemistry is assumed.
Course Prerequisites

Chemistry Background

Students may need to complete one prerequisite unit depending on their background in chemistry and their final scaled score in TEE Chemistry within the past three years. TEE Chemistry with a final scaled score of 60% or more OR PEC140 Introduction to Chemistry — 3 pts Murd: S1-Int, S1-Ext, S2-Int, S2-Ext Students who have completed previous chemistry not stated above should consult the Program Chair for clarification of their enrolment requirements.

Part I — 24 points

- **Foundation Unit — 3 points**
  Select one Foundation Unit from the Foundation Units section in this Handbook.

- **Core Units — 12 points**
  - ENV102 Introduction to Environmental Science — 3 pts Murd: S1-Int, S1-Ext
  - BIO103 Environmental Biology — 3 pts Murd: S1-Int, S1-Ext
  - MAS183 Statistical Data Analysis and Databases — 3 pts Murd: S1-Int, S1-Ext, S2-Int, S2-Ext
  - PEC144 Chemical Principles — 3 pts Murd: S1-Int, S1-Ext, S2-Int, S2-Ext

- **General Electives — 9 points**
  Select from any 100-level units offered by the University, subject to individual unit prerequisites. Any Murd unit taken as a course prerequisite will be considered as a Part I General Elective.

Students are advised to consider using these points to meet the requirements of a second major or minor. Recommended double major(s): Environmental Science (BEnvSc, BSc); Sustainable Development (BA, BSc).

Recommended:
- **STP220 Cities and Sustainability — 4 pts** Murd: S1-Int, S1-Ext
- **AIS301 Indigenous Sustainability — 4 pts** Murd: S2-Ext
- **PEC287 Renewable Energy and Sustainable Development — 4 pts** Murd: S2-Int, S2-Ext, Y-Ext

Part II — 48 points

- **Core Units — 24 points**
  - ENV268 Ecology — 4 pts Murd: S2-Int, S2-Ext
  - ENV211 Pollution and its Control — 4 pts Murd: S1-Int, S1-Ext
  - ENV311 Managing Wetlands and Water — 4 pts Murd: S2-Int, S2-Ext
  - ENV210 Environmental Technology for Sustainable Development — 4 pts Murd: S2-Int, S2-Ext
  - ENV206 Water Conservation and Auditing — 4 pts Murd: S1-Int, S1-Ext
  - ENV324 Environmental Restoration — 4 pts Murd: S2-Int, S2-Ext

- **General Electives — 24 points**
  Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using these points to meet the requirements of a second major or minor. Recommended double major(s): Environmental Science (BEnvSc, BSc); Sustainable Development (BA, BSc).

Recommended:
- **STP220 Cities and Sustainability — 4 pts** Murd: S1-Int, S1-Ext
- **AIS301 Indigenous Sustainability — 4 pts** Murd: S2-Ext
- **PEC287 Renewable Energy and Sustainable Development — 4 pts** Murd: S2-Int, S2-Ext, Y-Ext

**PREREQUISITES — ENVIRONMENTAL TECHNOLOGY (BSc)**

- **Australian Environmental Issues (ENV104)**
  Prerequisites: Nil.

- **Chemical Principles (PEC144)**
  Prerequisites: A thorough knowledge of Year 12 secondary-level chemistry is assumed. Students who did not achieve a final scaled score of 60% or more in TEE Chemistry within the three years immediately preceding enrolment are required to pass PEC140 Introduction to Chemistry prior to enrolling. Students who are unsure of their status should consult the Chemistry Program Chair.

- **Cities and Sustainability (STP220)**
  Prerequisites: Nil.

- **Ecology (ENV268)**
  Prerequisites: BIO103 Environmental Biology or the Bachelor of Applied Science in Environmental Science.

- **Environmental Biology (BIO103)**
  Prerequisites: Nil. Note: Ext students enrolled in BIO103 must be resident in Australia due to customs restrictions which prevent the forwarding of the practical kit to overseas destinations.
Prerequisites – Environmental Technology
(Continued)

☐ Environmental Restoration (ENV324)
   Prerequisites: ENV268 Ecology or enrolment in a postgraduate course from the School of Environmental Science.

☐ Environmental Technology for Sustainable Development (ENV210)
   Prerequisites: ENV104 Australian Environmental Issues, or ENV102 Introduction to Environmental Science.

☐ Indigenous Sustainability (AIS301)
   Prerequisites: Nil.

☐ Introduction to Chemistry (PEC140)
   Prerequisites: This unit is for students with a weak background in chemistry. Students with a final scaled score of more than 60% in TEE Chemistry within the past three years may be excluded from the unit. A knowledge of basic mathematics will be assumed.

☐ Introduction to Environmental Science (ENV102)
   Prerequisites: Nil.

☐ Managing Wetlands and Water (ENV311)
   Prerequisites: Completion of or concurrent enrolment in ENV268 Ecology or enrolment in the Bachelor of Applied Science in Environmental Science.

☐ Pollution and its Control (ENV211)
   Prerequisites: ENV102 Introduction to Environmental Science and PEC144 Chemical Principles or PEC115 Chemistry for Environmental Science or equivalent, or enrolment in the Bachelor of Technology in Environmental Technology or the Bachelor of Applied Science in Environmental Science.

☐ Renewable Energy and Sustainable Development (PEC287)

☐ Statistical Data Analysis and Databases (MAS183)
   Prerequisites: Nil.

☐ Water Conservation and Auditing (ENV206)
   Prerequisites: Nil.
Course Prerequisites

Chemistry Background

Students may need to complete one prerequisite unit depending on their background in chemistry and their final scaled score in TEE Chemistry within the past three years. TEE Chemistry with a final scaled score of 60% or more OR PEC140 Introduction to Chemistry — 3 pts Murd: S1-Int, S1-Ext, S2-Int, S2-Ext. Students who have completed previous chemistry not stated above should consult the Program Chair for clarification of their enrolment requirements.

Mathematics Background

Students may need to complete one prerequisite unit depending on their background in mathematics and their final scaled score in either TEE Calculus, or TEE Applicable Mathematics and Year 11 Introduction to Calculus within the past three years. TEE Applicable Mathematics with a final scaled score of 55% or more and Year 11 Introduction to Calculus OR MAS164 Fundamentals of Mathematics — 3 pts Murd: S1-Int, S1-Ext, S2-Int. Students who have completed previous mathematics not stated above should consult the Program Chair for clarification of their enrolment requirements.

Part I — 24 points

Foundation Unit — 3 points

Select one Foundation Unit from the Foundation Units section in this Handbook.

Core Units — 15 points

- ENV103 Environmental Biology — 3 pts
  Murd: S1-Int, S1-Ext
- ENV102 Introduction to Environmental Science — 3 pts
  Murd: S1-Int, S1-Ext, S2-Int
- PEC144 Chemical Principles — 3 pts
  Murd: S1-Int, S1-Ext, S2-Int, S2-Ext
- BIO180 Introduction to Marine Biology — 3 pts
  Murd: S2-Int
- MAS183 Statistical Data Analysis and Databases — 3 pts
  Murd: S1-Int, S1-Ext, S2-Int, S2-Ext
  OR
- MAS182 Applied Mathematics — 3 pts
  Murd: S1-Int, S1-Ext, S2-Int, S2-Ext

General Electives — 6 points

Select from any 100- to 400-level units offered by the University, subject to individual unit prerequisites. Any Murd unit taken as a course prerequisite will be considered as a Part I General Elective.

Students are advised to consider using these points to meet the requirements of a second major or minor. Recommended double major(s): Biological Sciences (BSc); Conservation and Wildlife Biology (BSc); Environmental Science (BEnvSc, BSc); Tourism (BTour).

Part II — 48 points

Core Units — 28 points

- BIO261 Animal Diversity — 4 pts
  Murd: S1-Int
- BIO287 Plant Diversity (Marine Science) — 4 pts
  Murd: S1-Int
- ENV268 Ecology — 4 pts
  Murd: S2-Int, S2-Ext

- ENV213 Atmospheric Science — 4 pts
  Murd: S1-Int, S1-Ext
- ENV282 Oceanography and Marine Pollution — 4 pts
  Murd: S2-Int
- BIO384 Marine and Estuarine Biology — 4 pts
  Murd: S1-Int
- ENV381 Coastal and Marine Management — 4 pts
  Murd: S2-Int

General Electives — 20 points

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites.

Students are advised to consider using these points to meet the requirements of a second major or minor. Recommended double major(s): Biological Sciences (BSc); Conservation and Wildlife Biology (BSc); Environmental Science (BEnvSc, BSc); Tourism (BTour).

PREREQUISITES — MARINE SCIENCE (BSC)

- Animal Diversity (BIO261)
  Prerequisites: N103/BIO103 Environmental Biology.
- Applied Mathematics (MAS182)
  Prerequisites: M164/MAS164 Fundamentals of Mathematics or at least a pass in the Year 11 course Introduction to Calculus together with a final scaled score of 55% or more in TEE Applicable Mathematics. Co-requisite: Internet access if studying Extly.
- Atmospheric Science (ENV213)
  Prerequisites: Nil. Co-requisite: Internet access if studying Extly.
Prerequisites – Marine Science
(Continued)

☐ Chemical Principles (PEC144)
Prerequisites: A thorough knowledge of Year 12 secondary-level chemistry is assumed. Students who did not achieve a final scaled score of 60% or more in TEE Chemistry within the three years immediately preceding enrolment are required to pass PEC140 Introduction to Chemistry prior to enrolling. Students who are unsure of their status should consult the Chemistry Program Chair.
Co-requisite: Internet access if studying Extly.

☐ Coastal and Marine Management (ENV381)
Prerequisites: ENV213 Atmospheric Science, ENV268 Ecology, ENV282 Oceanography and Marine Pollution and BIO384 Marine and Estuarine Biology.

☐ Ecology (ENV268)
Prerequisites: BIO103 Environmental Biology or the Bachelor of Applied Science in Environmental Science.
Co-requisite: Internet access if studying Extly.

☐ Environmental Biology (BIO103)
Prerequisites: Nil. Note: Ext students enrolled in BIO103 must be resident in Australia due to customs restrictions which prevent the forwarding of the practical kit to overseas destinations.
Co-requisite: Internet access if studying Extly.

☐ Fundamentals of Mathematics (MAS164)
Prerequisites: Nil.
Co-requisite: Internet access if studying Extly.

☐ Introduction to Chemistry (PEC140)
Prerequisites: This unit is for students with a weak background in chemistry. Students with a final scaled score of more than 60% in TEE Chemistry within the past three years may be excluded from the unit. A knowledge of basic mathematics will be assumed.
Co-requisite: Internet access if studying Extly.

☐ Introduction to Environmental Science (ENV102)
Prerequisites: Nil.
Co-requisite: Internet access if studying Extly.

☐ Introduction to Marine Biology (BIO180)
Prerequisites: N103/BIO103 Environmental Biology.

☐ Marine and Estuarine Biology (BIO384)
Prerequisites: N261/BIO261 Animal Diversity, or N287/BIO287 Plant Diversity (Marine Science) or N265/BIO265 Plant Diversity, or N268/ENV268 Ecology.

☐ Oceanography and Marine Pollution (ENV282)
Prerequisites: BIO180 Introduction to Marine Biology, ENV213 Atmospheric Science, and PEC144 Chemical Principles or PEC115 Chemistry for Environmental Science.

☐ Plant Diversity (Marine Science) (BIO287)
Prerequisites: N103/BIO103 Environmental Biology.

☐ Statistical Data Analysis and Databases (MAS183)
Prerequisites: Nil.
Co-requisite: Internet access if studying Extly.
## Ecotourism (BSc) – Sample Enrolment
### Mid Year 2009

<table>
<thead>
<tr>
<th>Year</th>
<th>Semester 1</th>
<th>Semester 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Foundation Unit (see list below) 3pts</td>
<td>TOU102 Introduction to Travel and Tourism 3pts</td>
</tr>
<tr>
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<td>Part I Unit (General Elective) 3pts</td>
<td>Part I Unit (General Elective) 3pts</td>
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<td></td>
<td>Part I Unit (General Elective) 3pts</td>
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<td></td>
<td>12pts</td>
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<tr>
<td>2</td>
<td>BIO103 Environmental Biology 3pts</td>
<td>ENV268 Ecology 4pts</td>
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<tr>
<td></td>
<td>ENV102 Introduction to Environmental Science 3pts</td>
<td>Part II Unit (General Elective) 4pts</td>
</tr>
<tr>
<td></td>
<td>TOU101 Introduction to Tourism Systems 3pts</td>
<td>Part II Unit (General Elective) 4pts</td>
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<td>Part I Unit (General Elective) 3pts</td>
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<td>12pts</td>
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<tr>
<td>3</td>
<td>ENV279 Nature-Based Tourism 4pts</td>
<td>ENV324 Environmental Restoration 4pts</td>
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<td></td>
<td>TOU201 Sustainable Tourism 4pts</td>
<td>TOU303 Tourism Management 4pts</td>
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<td>Part II Unit (General Elective) 4pts</td>
<td>Part II Unit (General Elective) 4pts</td>
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<td>12pts</td>
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<tr>
<td>4</td>
<td>TOU301 Tourism Policy and Planning 4pts</td>
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<td></td>
<td>Part II Unit (General Elective) 4pts</td>
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<td>Part II Unit (General Elective) 4pts</td>
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<td></td>
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</table>

**Foundation Unit:** Select one unit from the following:

<table>
<thead>
<tr>
<th>Semester 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>FDN105 Structure, Thought and Reality</td>
</tr>
<tr>
<td>FDN115 Interactions of Society and Technology</td>
</tr>
<tr>
<td>FDN150 Reinventing Australia</td>
</tr>
</tbody>
</table>

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32
# Environmental Engineering (BE) – Sample Enrolment

## Mid Year 2009

<table>
<thead>
<tr>
<th>Year</th>
<th>Semester 1</th>
<th>Semester 2</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Year 1</strong></td>
<td>Foundation Unit (see list below)</td>
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</tr>
<tr>
<td></td>
<td>MAS161 Calculus and Matrix Algebra#</td>
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<tr>
<td></td>
<td>PEC152 Principles of Physics</td>
<td>3pts</td>
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<td></td>
<td>(Students who do NOT have a TEE Physics final scaled score 60% or more must complete PEC120 General Physics prior to enrolling in this unit.)</td>
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<tr>
<td></td>
<td>ENG109 Computing for Scientists and Engineers</td>
<td>3pts</td>
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<td></td>
<td><strong>Total</strong></td>
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</tr>
<tr>
<td><strong>Year 2</strong></td>
<td>ENV102 Introduction to Environmental Science</td>
<td>3pts</td>
</tr>
<tr>
<td></td>
<td>BIO103 Environmental Biology</td>
<td>3pts</td>
</tr>
<tr>
<td></td>
<td>ENG141 Design Concepts in Science and Engineering</td>
<td>3pts</td>
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<tr>
<td></td>
<td>PEC144 Chemical Principles</td>
<td>3pts</td>
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<td></td>
<td>(Students who do NOT have a TEE Chemistry final scaled score of 60% or more must complete PEC140 Introduction to Chemistry prior to enrolling into this unit.)</td>
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<td><strong>Total</strong></td>
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<tr>
<td><strong>Year 3</strong></td>
<td>ENV206 Water Conservation and Auditing</td>
<td>4pts</td>
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<tr>
<td></td>
<td>ENV281 Water and Earth Science</td>
<td>4pts</td>
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<tr>
<td></td>
<td>MAS284 Applied Statistics and Process Management</td>
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<td><strong>Total</strong></td>
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<tr>
<td><strong>Year 4</strong></td>
<td>ENV211 Pollution and its Control</td>
<td>4pts</td>
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<tr>
<td></td>
<td>ENG241 Principles of Process Engineering</td>
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<td></td>
<td>ENG352 Energy Supply Systems</td>
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<td>(year long for 4pts total)</td>
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<td><strong>Total</strong></td>
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<tr>
<td><strong>Year 5</strong></td>
<td>ENG428 Engineering Design</td>
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<td></td>
<td>ENG453 Engineering Law, Management and Ethics</td>
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<td>Part II Unit (General Elective)</td>
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<td><strong>Total</strong></td>
<td><strong>12pts</strong></td>
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</tbody>
</table>

# Students who do NOT have a TEE Calculus final scaled score of 55% or more, must complete MAS182 Applied Mathematics prior to enrolling MAS161.

If you do NOT have TEE Applicable Mathematics final scaled score of 55% or more, you must complete MAS164 Fundamentals of Mathematics prior to enrolling in MAS182 Applied Mathematics.

**Foundation Unit:** Select one unit from the following:

- FDN105 Structure, Thought and Reality
- FDN115 Interactions of Society and Technology
- FDN150 Reinventing Australia
## Environmental Management (BEnvMan)
### Sample Enrolment
#### Mid Year 2009

<table>
<thead>
<tr>
<th>Year</th>
<th>Semester 1</th>
<th>Semester 2</th>
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<tbody>
<tr>
<td></td>
<td><strong>Foundation Unit (see list below)</strong>________</td>
<td>3pts</td>
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<tr>
<td></td>
<td>MAS183 Statistical Data Analysis and Databases</td>
<td>3pts</td>
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<tr>
<td></td>
<td>Part I Unit (General Elective)________</td>
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<td>Part I Unit (General Elective)________</td>
<td>3pts</td>
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<td><strong>12pts</strong></td>
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<tr>
<td></td>
<td><strong>ENV102 Introduction to Environmental Science</strong></td>
<td><strong>ENV212 Global and Regional Sustainability</strong> 4pts</td>
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<td></td>
<td><strong>3pts</strong></td>
<td><strong>ENV228 Environmental Policy and Law</strong> 4pts</td>
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<td></td>
<td><strong>BIO103 Environmental Biology</strong></td>
<td><strong>ENV268 Ecology</strong> 4pts</td>
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<tr>
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<td><strong>3pts</strong></td>
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<tr>
<td></td>
<td><strong>BUS145 Principles of Management</strong></td>
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<td><strong>OR</strong></td>
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<tr>
<td></td>
<td><strong>STP108 Introduction to Sustainable Development</strong></td>
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<td><strong>3pts</strong></td>
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<td>Part I Unit (General Elective)________</td>
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<td><strong>12pts</strong></td>
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<tr>
<td></td>
<td><strong>ENV206 Water Conservation and Auditing</strong> 4pts</td>
<td><strong>ENV319 Environmental Management</strong> 4pts</td>
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<tr>
<td></td>
<td><strong>ENV222 Pollutants &amp; the Human Environment</strong> 4pts</td>
<td><strong>ENV203 GIS for Environmental Management and Planning</strong></td>
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<td>Part II Unit (General Elective)________</td>
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<td><strong>4pts</strong></td>
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<td></td>
<td><strong>12pts</strong></td>
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</table>

**Recommended general elective: Part I:** BUS161 Introduction to Economics  
**Part II:** ENV316 Environmental Policy for the 21st Century

**Foundation Unit:** Select one unit from the following:

<table>
<thead>
<tr>
<th>Semester 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>FDN105 Structure, Thought and Reality</td>
</tr>
<tr>
<td>FDN115 Interactions of Society and Technology</td>
</tr>
<tr>
<td>FDN150 Reinventing Australia</td>
</tr>
</tbody>
</table>
### Environmental Restoration (BSc) – Sample Enrolment 2009
**Mid Year 2009**

<table>
<thead>
<tr>
<th>Semester 1</th>
<th>Semester 2</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Year 1</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Foundation Unit (see list below)</strong>____________</td>
<td><strong>ENV268 Ecology</strong></td>
</tr>
<tr>
<td><strong>3pts</strong></td>
<td><strong>4pts</strong></td>
</tr>
<tr>
<td><strong>BI0103 Environmental Biology</strong></td>
<td><strong>ENV228 Environmental Policy and Law</strong></td>
</tr>
<tr>
<td><strong>3pts</strong></td>
<td><strong>4pts</strong></td>
</tr>
<tr>
<td><strong>ENV102 Introduction to Environmental Science</strong></td>
<td><strong>Part II Unit (General Elective)</strong></td>
</tr>
<tr>
<td><strong>3pts</strong></td>
<td><strong>4pts</strong></td>
</tr>
<tr>
<td><strong>PEC140 Introduction to Chemistry</strong></td>
<td><strong>OR</strong></td>
</tr>
<tr>
<td><strong>3pts</strong></td>
<td><strong>12pts</strong></td>
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<td><strong>OR</strong></td>
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<tr>
<td><strong>Part I Unit (General Elective)</strong></td>
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<tr>
<td><strong>12pts</strong></td>
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<tr>
<td><strong>Year 2</strong></td>
<td></td>
</tr>
<tr>
<td><strong>ENV281 Water and Earth Science</strong></td>
<td><strong>ENV324 Environmental Restoration</strong></td>
</tr>
<tr>
<td><strong>4pts</strong></td>
<td><strong>4pts</strong></td>
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<tr>
<td><strong>Part II Unit (General Elective)</strong></td>
<td><strong>Part II Unit (General Elective)</strong></td>
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<tr>
<td><strong>4pts</strong></td>
<td><strong>4pts</strong></td>
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<tr>
<td><strong>Part II Unit (General Elective)</strong></td>
<td><strong>OR</strong></td>
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<td><strong>4pts</strong></td>
<td><strong>12pts</strong></td>
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<td><strong>OR</strong></td>
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<td><strong>12pts</strong></td>
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<tr>
<td><strong>Year 3</strong></td>
<td></td>
</tr>
<tr>
<td><strong>ENV316 Environmental Policy for the 21st Century</strong></td>
<td><strong>ENV310 Land Management</strong></td>
</tr>
<tr>
<td><strong>4pts</strong></td>
<td><strong>4pts</strong></td>
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<td><strong>Part II Unit (General Elective)</strong></td>
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<tr>
<td><strong>4pts</strong></td>
<td><strong>12pts</strong></td>
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</table>

**Foundation Unit:** Select one unit from the following:

<table>
<thead>
<tr>
<th>Semester 2</th>
</tr>
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<tbody>
<tr>
<td><strong>FDN105 Structure, Thought and Reality</strong></td>
</tr>
<tr>
<td><strong>FDN115 Interactions of Society and Technology</strong></td>
</tr>
<tr>
<td><strong>FDN150 Reinventing Australia</strong></td>
</tr>
</tbody>
</table>
**Environmental Science (BEnvSc) – Sample Enrolment 2009**  
Mid Year 2009

**Note:** Due to unit prerequisites, some students may not be able to complete in the minimum 4 years unless they have relevant prior experience.

<table>
<thead>
<tr>
<th>Year</th>
<th>Semester 1</th>
<th>Semester 2</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Foundation Unit (see list below)</strong>_________ 3pts</td>
<td><strong>Foundation Unit (see list below)</strong>_________ 3pts</td>
</tr>
<tr>
<td></td>
<td>MAS183 Statistical Data Analysis and Databases</td>
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</tr>
<tr>
<td></td>
<td>PEC144 Chemical Principles</td>
<td></td>
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<tr>
<td></td>
<td><em>(Students who do not have a TEE Chemistry final scaled score of 60% or more must complete PEC140 Introduction to Chemistry prior to enrolling into this unit.)</em></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Part I Unit (General Elective)_________ 3pts</td>
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<td><strong>Part I Unit (General Elective)_________ 3pts</strong></td>
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<td><strong>Part I Unit (General Elective)_________ 3pts</strong></td>
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<td></td>
<td><strong>Year 2</strong></td>
<td><strong>Year 2</strong></td>
</tr>
<tr>
<td></td>
<td><strong>BIO103 Environmental Biology</strong></td>
<td>ENV268 Ecology</td>
</tr>
<tr>
<td></td>
<td><strong>ENV102 Introduction to Environmental Science</strong></td>
<td><strong>ENV228 Environmental Policy and Law</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Part I Unit (General Elective)_________ 3pts</strong></td>
<td>**Part II Unit (General Elective)_________ 4pts</td>
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<td></td>
<td><strong>Part I Unit (General Elective)_________ 3pts</strong></td>
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<td><strong>Year 3</strong></td>
<td><strong>Year 3</strong></td>
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<tr>
<td></td>
<td>ENV213 Atmospheric Science</td>
<td>ENV311 Managing Wetlands and Water</td>
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<td></td>
<td>ENV211 Pollution and its Control</td>
<td>ENV319 Environmental Management</td>
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<td></td>
<td>ENV281 Water and Earth Science</td>
<td>**Part II Unit (General Elective)_________ 4pts</td>
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<td><strong>Part II Unit (General Elective)_________ 4pts</strong></td>
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<td><strong>Year 4</strong></td>
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<tr>
<td></td>
<td><strong>Part II Unit (General Elective)_________ 4pts</strong></td>
<td>ENV505 Environmental Monitoring</td>
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<td><strong>Part II Unit (General Elective)_________ 4pts</strong></td>
<td><strong>Part II Specified Elective (Select from any 400/500 level unit in the School of Environmental Science. Other units may be substituted with permission of Program Chair).</strong></td>
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<td><strong>Part II Unit (General Elective)_________ 4pts</strong></td>
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<tr>
<td></td>
<td><strong>EITHER</strong></td>
<td><strong>Year 5</strong></td>
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<td></td>
<td>ENV520 Principles of Environmental Impact Assessment</td>
<td>ENV421 Environmental Science Project</td>
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<td>(year long option for 12pts total)</td>
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<tr>
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<td>ENV523 Environmental Science Research Methods</td>
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</table>


| OR | ENV520 Principles of Environmental Impact Assessment | 4pts |
|    | ENV440 Environmental Science Internship             | 12pts |
| And | *Part II Specified Elective (must enrol in previous semester) | 16pts |

**Foundation Unit:** Select one unit from the following:
- FDN105 Structure, Thought and Reality
- FDN115 Interactions of Society and Technology
- FDN150 Reinventing Australia
# Environmental Technology (BSc) – Sample Enrolment

## Mid Year 2009

<table>
<thead>
<tr>
<th>Semester 1</th>
<th>Semester 2</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Foundation Unit (see list below) 3pts</td>
</tr>
<tr>
<td></td>
<td>MAS183 Statistical Data Analysis and Databases 3pts</td>
</tr>
<tr>
<td></td>
<td>PEC144 Chemical Principles 3pts</td>
</tr>
<tr>
<td></td>
<td>(Students who do not have a TEE Chemistry final scaled score of 60% or more must complete PEC140 Introduction to Chemistry prior to enrolling into this unit.) 3pts</td>
</tr>
<tr>
<td></td>
<td>Part I Unit (General Elective) 3pts</td>
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<tr>
<td></td>
<td>Part I Unit (General Elective) 3pts</td>
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<td>BIO103 Environmental Biology 3pts</td>
<td>ENV268 Ecology 4pts</td>
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<tr>
<td>ENV102 Introduction to Environmental Science 3pts</td>
<td>ENV210 Environmental Technology for Sustainable Development 4pts</td>
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<td>Part II Unit (General Elective) 4pts</td>
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<tr>
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<td>Part II Unit (General Elective) 4pts</td>
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<tr>
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<tr>
<td>ENV211 Pollution and its Control 4pts</td>
<td>ENV311 Managing Wetlands and Water 4pts</td>
</tr>
<tr>
<td>ENV206 Water Conservation and Auditing 4pts</td>
<td>ENV324 Environmental Restoration 4pts</td>
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**Foundation Unit:** Select one unit from the following:

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<thead>
<tr>
<th>Semester 2</th>
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<tr>
<td>FDN105 Structure, Thought and Reality</td>
</tr>
<tr>
<td>FDN115 Interactions of Society and Technology</td>
</tr>
<tr>
<td>FDN150 Reinventing Australia</td>
</tr>
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Marine Science (BSc) – Sample Enrolment
Mid Year 2009

Note: Due to unit prerequisites, some students may not be able to complete in the minimum 3 years unless they have relevant prior experience.

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Semester 1</th>
<th>Semester 2</th>
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<tbody>
<tr>
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<td>Foundation Unit (see list below)</td>
<td>3pts</td>
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<tr>
<td></td>
<td>PEC144 Chemical Principles</td>
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<tr>
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<td><em>(Students who do NOT have a TEE Chemistry final scaled score of 60% or more must complete PEC140 Introduction to Chemistry prior to enrolling into this unit.)</em></td>
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<tr>
<td></td>
<td>ENV102 Introduction to Environmental Science</td>
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<tr>
<td></td>
<td>MAS183 Statistical Data Analysis &amp; Databases</td>
<td>3pts</td>
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<tr>
<td></td>
<td><strong>OR</strong></td>
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<tr>
<td></td>
<td>MAS182 Applied Mathematics</td>
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<td></td>
<td><em>(Students who do NOT have a TEE Applicable Mathematics scaled score of 55% or more must complete MAS164 Fundamentals of Mathematics before completing MAS182).</em></td>
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<th>Year 2</th>
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<tr>
<td></td>
<td>BIO103 Environmental Biology</td>
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<tr>
<td></td>
<td>PEC144 Chemical Principles <em>(if not completed in previous semester)</em></td>
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<td><strong>OR</strong></td>
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<tr>
<td></td>
<td>Part I unit (General Elective)</td>
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<th>Semester 2</th>
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<tr>
<td></td>
<td>BIO261 Animal Diversity</td>
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<td></td>
<td>BIO287 Plant Diversity</td>
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<td>ENV213 Atmospheric Science</td>
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<th>Year 4</th>
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<th>Semester 2</th>
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<tbody>
<tr>
<td></td>
<td>BIO384 Marine and Estuarine Biology</td>
<td>4pts</td>
</tr>
<tr>
<td></td>
<td>Part II Unit (General Elective)</td>
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<tr>
<td></td>
<td>Part II Unit (General Elective)</td>
<td>4pts</td>
</tr>
<tr>
<td></td>
<td><strong>12pts</strong></td>
<td><strong>4 pts</strong></td>
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**Foundation Unit:** Select one unit from the following:

<table>
<thead>
<tr>
<th>Semester 1</th>
<th>Semester 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>FDN105 Structure, Thought and Reality</td>
<td></td>
</tr>
<tr>
<td>FDN115 Interactions of Society and Technology</td>
<td></td>
</tr>
<tr>
<td>FDN150 Reinventing Australia</td>
<td></td>
</tr>
</tbody>
</table>
All Murdoch students are required to complete one Foundation Unit unless they have been awarded Advanced Standing including an exemption for it. Check the teaching timetable for most up-to-date day, time and room location of each Foundation Unit: [http://www.murdoch.edu.au/admin/timetables/teaching/](http://www.murdoch.edu.au/admin/timetables/teaching/). All foundation units have Lectures: 2 hours per week; workshops/tutorials: 2 hours per week. Below are the foundation units on offer for semester 2.

FDN105 Structure, Thought and Reality
Murdoch: S1-internal, S1-external, Y-external
Unit Coordinator: Dr Ian Cook, i.cook@murdoch.edu.au, Tel: 9360 6117, Education and Humanities Room 3.040

In this unit you will be asked to think differently about reality. Rather than taking reality to be natural or objective, we will treat it as social or subjective. When we think of reality in this way, we start to understand "truth" and "knowledge" in a very different light. After considering reasons to treat reality as social or subjective, we apply this view of reality to topics including: human sexuality, childhood, death, virtual reality, God and the war on terror.

FDN115 Interactions of Society and Technology
Murdoch: S1-internal, S1-external, S2-internal, S2-external
Peel: S1-internal, S2-internal, Rockingham: S1-internal, S2-internal
Unit Coordinator – Ms Martina Muller, m.muller@murdoch.edu.au
Tel: 9360 2955, Science and Computing Room 2.011

Society's constantly evolving interrelationship with technology has fundamentally changed our perception of ourselves and society. It is increasingly important for people to have a broad understanding of social, historical, ethical, economic and environmental factors that interconnect societal development with the nature of technology. This unit will provide students with an understanding of these issues.

Topics: histories of western culture and sciences, the nature of democracy, life cycle analysis and sustainability, political structures, cities, reproductive technologies, privacy, medicine, design and innovation.

FDN150 Reinventing Australia
Murdoch: S1-internal, S1-external, S2-internal, S2-external, Rockingham: S1-internal
Unit Coordinator – Associate Professor Michael Sturma, m.sturma@murdoch.edu.au
Tel: 9360 2857, Social Sciences Room 2.016

As Australia is in some sense being 'reinvented' by globalisation, new technology and other forces for change, we consider just what 'Australia' is and possibilities for shaping its future. Topics: contemporary issues such as the environment, Aboriginal rights, the family, multiculturalism, and terrorism. Our aim is to identify and understand some of the salient features of Australian society.
# Personal Study Plan

Unit Sets: ________________________________________________________________
_______________________________________________________________________

<table>
<thead>
<tr>
<th>YEAR</th>
<th>SEMESTER 1</th>
<th>SEMESTER 2</th>
</tr>
</thead>
<tbody>
<tr>
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<td></td>
<td></td>
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<tr>
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<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Program Chair & Academic Contact Details

**Environmental Science, Dr Jane Chambers**  
J.Chambers@murdoch.edu.au  
p: 08 9360 2739, PS 3.040

**Marine Science, Dr Mike Van Keulen**  
keulen@murdoch.edu.au,  
p: 08 9360 2369, BS 2.039

**Environmental Engineering, Dr Martin Anda**  
M.Anda@murdoch.edu.au,  
p: 08 9360 6123, ES 3.049

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

Enrolment Enquiries

Enrolment advice will be provided at the Course Advice Sessions during Orientation Week. If you have attended one of these sessions and still have enrolment queries, please contact your Faculty Student Administration staff member.

Julie Daniell, Student Administrative Officer  
j.daniell@murdoch.edu.au  
Education and Humanities Building Room 2.002  
ph: 08 9360 7294  

The New Students website ([http://www.murdoch.edu.au/students/new/](http://www.murdoch.edu.au/students/new/)) will also assist you with links to enrolment procedures, sample enrolments, including unit selection for common double majors, Fees, Orientation and Services and Facilities.
# 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>
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<tbody>
<tr>
<td>Computer/ 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>Enrolment – units</td>
<td>Faculty Student Administration</td>
<td><a href="mailto:fsa@murdoch.edu.au">fsa@murdoch.edu.au</a></td>
<td>9360 2420</td>
<td>EH 2.002</td>
</tr>
<tr>
<td>Student ID card</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>
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<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)</td>
<td><a href="mailto:A.Wong@murdoch.edu.au">A.Wong@murdoch.edu.au</a></td>
<td>9360 6352</td>
<td>Chancellery 2.027</td>
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<tr>
<td></td>
<td>Mr John Tan (International Stud.)</td>
<td><a href="mailto:J.Tan@murdoch.edu.au">J.Tan@murdoch.edu.au</a></td>
<td>9360 6010</td>
<td>Senate 1.001</td>
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<tr>
<td>First Year Experience Coordinator</td>
<td>Tammy Geddes</td>
<td><a href="mailto:firstyear@murdoch.edu.au">firstyear@murdoch.edu.au</a></td>
<td>9360 2519</td>
<td>Library 3.001B</td>
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New Student home page  
http://www.murdoch.edu.au/students/new/

2009 Handbook  
http://handbook.murdoch.edu.au

Bookshop (eg. textbooks)  

Dates and Deadlines  
http://www.oss.murdoch.edu.au/timetables/

External Studies  
http://external.murdoch.edu.au/

Faculty Student Administration  
http://www.murdoch.edu.au/fsa

Guild of Students  
http://guild.murdoch.edu.au

Library  
http://wwwlib.murdoch.edu.au/

Maps  
http://www.murdoch.edu.au/maps/

Murdoch International  
http://www.international.murdoch.edu.au

MyMurdoch (online enrolment)  
http://my.murdoch.edu.au

Orientation home page  
http://www.murdoch.edu.au/students/new/orientation.html

Parking and Transport  
http://www.murdoch.edu.au/index/students/P&T

Teaching timetable  
http://www.murdoch.edu.au/admin/timetables/teaching/

Unit coordinator details  
http://www.murdoch.edu.au/index/units

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