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reproduced, stored in a retrieval system or be broadcast or transmitted without the prior written
permission of the publisher.
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
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 Course/Major Description (Appendix A)
   The description will provide you with information about your course and major, including recommended double majors and minors.

☐ Review your Checklist and Unit Prerequisites (Appendix B)
   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.

☐ Review the Sample Enrolments (Appendix C)
   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.

☐ Choose your units …
   …you want to enrol in for the current year by using the information you have reviewed above from the checklist (Appendix B) and sample enrolment (Appendix C). You can find out about each unit in the Handbook online 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/) 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: http://www.murdoch.edu.au/admin/timetables/teaching/enquiry.html.

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.
- Investigate your Course Advice Session(s) 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 G. 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 …
Complete Your Enrolment

- **Log in to MyMurdoch ..**
  
  … at [http://www.murdoch.edu.au/goto/MyMurdoch](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 (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 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.

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 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

☐ 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 Semester.

☐ 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 “Investigate” - 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 “Investigate” course advice session?
When: Tuesday, July 29 at 1.30 pm
Where: RLT (Robertson Lecture Theatre)
Who: Biological Sciences (BSc), Biotechnology (BSc), Biotechnology (BSc) + Management/Marketing Management/Entrepreneurship and Innovation (BCom), Conservation and Wildlife Biology (BSc), Molecular Biology (BSc), Forensic Biology and Toxicology (BForensics), Forensic Biology and Toxicology (BForensics) + Molecular Biology (BSc) + Biomedical Science (BSc)

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.

If you are still unsure of your choice of units after you have read this booklet and you have attended the relevant “Investigate” course advice session you can email or phone your Faculty Student Administration staff member (Appendix G) with details of your query.
The Orientation program has been designed to meet your specific needs as a new 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 should expect to attend at least 2 days at Orientation to experience the helpful and friendly atmosphere at Murdoch.

You can check the full orientation timetable ([http://www.murdoch.edu.au/students/new/orientation.html](http://www.murdoch.edu.au/students/new/orientation.html)) for event and Investigate - course advice session details.

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

- Things to do during Orientation Week:
  - Discover – All about Murdoch and what you should expect here.
  - Investigate – Your course advice session to find out what your enrolment options are and how your Program Chair can help you.
  - 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/](http://www.oss.murdoch.edu.au/parking/))
  - Join one of the many Murdoch Clubs & Societies
  - Meet other students in your same course.
STEP 7

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 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 (Appendix B) and Sample Enrolment (Appendix C) 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 (Appendix G).

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 other 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 (see Appendix H).
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://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 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).
## Biological Sciences (BSc)

<table>
<thead>
<tr>
<th>Qualifications</th>
<th>Bachelor of Science (BSc) in Biological Sciences</th>
</tr>
</thead>
<tbody>
<tr>
<td>Credit Points for Course</td>
<td>72</td>
</tr>
<tr>
<td>Course Codes</td>
<td>B1031</td>
</tr>
<tr>
<td>Description</td>
<td>The Biological Sciences major aims to produce biologists with wide-ranging training and experience in a broad area of biology. It adopts an integrated approach to the major themes of biology, from the molecular and cellular levels to the whole organism and community levels. This is achieved by examining the common features and differences in the biochemistry, genetics, physiology, ecology and behaviour of microorganisms, plants and animals. In addition, students may select electives to place emphasis on animal biology, biochemistry, ecology, environmental biology and microbiology.</td>
</tr>
<tr>
<td>Special Requirements</td>
<td>The course can only be completed by internal study, although some units are available externally. Students will not be required to kill any vertebrate animal, although they may be required to work with vertebrate tissues or products. Some collection of invertebrate specimens is required.</td>
</tr>
<tr>
<td>Recommended Double Majors</td>
<td>Conservation and Wildlife Biology (BSc); Environmental Science (BEnvSc, BSc); Marine Science (BSc); Molecular Biology (BSc)</td>
</tr>
<tr>
<td>Recommended Minors</td>
<td>Animal Biology; Conservation Biology; Marine Biology; Molecular Biology</td>
</tr>
<tr>
<td>Excluded Minors</td>
<td>Plant Biology</td>
</tr>
<tr>
<td>Professional Recognition</td>
<td>Graduates are eligible for admission to a wide range of professional societies</td>
</tr>
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</table>
Biotechnology (BSc)

<table>
<thead>
<tr>
<th>Qualifications</th>
<th>Bachelor of Science (BSc) in Biotechnology</th>
</tr>
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<tr>
<td>Credit Points for Course</td>
<td>72</td>
</tr>
<tr>
<td>Course Codes</td>
<td>B1032</td>
</tr>
<tr>
<td>Description</td>
<td>Biotechnology is concerned with the commercial applications of biological techniques or biological agents such as bacteria or isolated enzymes in medicine, agriculture or industry. Examples include fermentation processes such as wine, beer, bread and cheese making; enzyme engineering for the manufacture of vitamins, antibiotics and biochemicals; genetic engineering of plants and animals for agricultural and medical purposes; and environmental engineering to allow for the efficient treatment of wastes and the rehabilitation of polluted sites. Broad training is provided as well as in-depth study in selected areas so as to generate graduates capable of operating in an interdisciplinary environment. The major provides the opportunity to gain experience in the biological, chemical and commercial aspects of biotechnology with an emphasis on the development of the skills and knowledge applicable to a wide range of biotechnological processes. Areas studied include genetic engineering, immunology and vaccine production, fermentation technology and cell culture. Specialisations may be incorporated into the degree.</td>
</tr>
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</table>
**Biotechnology (BSc) + Management (BCom), Biotechnology (BSc) + Marketing Management (BCom), Biotechnology (BSc) + Entrepreneurship and Innovation (BCom)**

<table>
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<th>Bachelor of Science (BSc) in Biotechnology + Bachelor of Commerce (BCom) in Entrepreneurship and Innovation or Management or Marketing Management</th>
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<td>Credit Points for Course</td>
<td>96</td>
</tr>
<tr>
<td>Course Codes</td>
<td>B1191</td>
</tr>
<tr>
<td>Description</td>
<td>Biotechnology is an applied science that uses the techniques of biochemistry, microbiology, molecular biology, fermentation technology and genetic engineering to generate commercial products of benefit to medicine, agriculture and industry. Because of the commercial applications of biotechnology, training in commerce is considered by employers in the biotechnology industry to be highly desirable. This specially constructed joint degree provides thorough training in biotechnology and in either management, marketing management or entrepreneurship and innovation. Graduates will be awarded a BSc (Biotechnology) and a BCom (Management or Marketing Management or Entrepreneurship and Innovation). Students undertaking this double qualification should note that, due to the combination of units offered, it is not possible to avoid timetable clashes between all units. Students will need to select their units carefully to ensure completion of the qualification within four years and should seek advice from the Program Chair on the most appropriate enrolment pattern on a yearly basis.</td>
</tr>
<tr>
<td><strong>Conservation and Wildlife Biology (BSc)</strong></td>
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<td>------------------------------------------</td>
<td></td>
</tr>
<tr>
<td><strong>Qualifications</strong></td>
<td>Bachelor of Science (BSc) in Conservation and Wildlife Biology</td>
</tr>
<tr>
<td><strong>Credit Points for Course</strong></td>
<td>72</td>
</tr>
<tr>
<td><strong>Course Codes</strong></td>
<td>B1138</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>Conservation Biology is concerned with the study and protection of biological diversity. It requires a detailed understanding of biology as well as of the social, political and economic context in which conservation policy is developed and implemented. It is therefore an excellent interdisciplinary major embracing aspects of science and the social sciences. The core of the degree is a solid grounding in a range of biological disciplines and their application to the conservation of biota. This is supplemented by required units covering law, policy and management.</td>
</tr>
<tr>
<td><strong>Special Requirements</strong></td>
<td>Students undertaking units in Conservation Biology will not be required to kill any vertebrate animal but they will be required to work with fresh tissue from dead animals in certain units.</td>
</tr>
<tr>
<td><strong>Recommended Double Majors</strong></td>
<td>Biological Sciences (BSc); Environmental Science (BEnvSc, BSc); Marine Science (BSc); Molecular Biology (BSc)</td>
</tr>
<tr>
<td><strong>Recommended Minors</strong></td>
<td>Animal Biology; Applied Statistics; Bioinformatics; Ecosystem Management; Land Management; Marine Biology; Mathematical Modelling; Molecular Biology; Plant Biology</td>
</tr>
<tr>
<td><strong>Excluded Minors</strong></td>
<td>Conservation Biology</td>
</tr>
<tr>
<td><strong>Professional Recognition</strong></td>
<td>Eligible to seek membership of the Ecological Society of Australia and other relevant professional bodies.</td>
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### Molecular Biology (BSc)

<table>
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<tr>
<th>Qualifications</th>
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<td>72</td>
</tr>
<tr>
<td>Course Codes</td>
<td>B1139</td>
</tr>
</tbody>
</table>
| Description | Molecular Biology is concerned with the structure and function of genetic material, the organisation and expression of genes and with the techniques of genetic engineering. These techniques have widespread application in agriculture (production of disease resistant crops; enhancement of the nutritive value of plant and animal products), in medicine (production of vaccines; treatment of genetic diseases; understanding the molecular basis of cancer), in forensic science (DNA profiling) and in conservation biology (control of feral animals; generation of disease resistance in plants and animals).

From the perspective of the fundamental disciplines of biochemistry and microbiology, the Molecular Biology major provides in-depth study of modern molecular genetics and introduces students to the scientific techniques associated with gene manipulation. Students are also provided with an opportunity to explore the ethical considerations relevant to gene transfer technology. |
<p>| Special Requirements | Students undertaking units in Molecular Biology will not be required to kill any vertebrate animal but they will be required to work with fresh tissue from dead animals in certain units. |
| Recommended Double Majors | Animal Science (BAnimSc); Biological Sciences (BSc); Biomedical Science (BSc); Biotechnology (BSc); Conservation and Wildlife Biology (BSc); Forensic Biology and Toxicology (BForensics) |</p>
<table>
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<tr>
<th>Qualifications</th>
<th>Bachelor of Forensics (BForensics) in Forensic Biology and Toxicology</th>
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<td>72</td>
</tr>
<tr>
<td>Course Codes</td>
<td>B1256</td>
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<tr>
<td>Description</td>
<td>Forensic Biology and Toxicology is concerned with the application of the techniques of molecular biology (DNA profiling) and analytical chemistry (drug and alcohol analysis) to the fight against crime. The major provides in-depth study of modern molecular genetics including practical training in the techniques of genetic analysis such as the polymerase chain reaction (PCR) and the use of VNTRs (variable number of tandem repeats), STRs (short tandem repeats) and SNPs (single nucleotide polymorphisms) to identify regions of DNA. The application of these techniques to the analysis of ancient DNA is discussed. Hands-on experience is also provided in the modern analytical techniques associated with the detection of legal and illicit drugs and homicidal poisons including gas chromatography, HPLC, NMR and mass spectrometry. The major also provides thorough training in biochemistry, including aspects of drug metabolism, and incorporates case studies and examples from a wide range of forensic investigations which are supported by guest lectures from forensic science professionals.</td>
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**Forensic Biology and Toxicology (BForensics) + Molecular Biology (BSc) + Biomedical Science (BSc)**

<table>
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<tr>
<th>Qualifications</th>
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<td>Course Codes</td>
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<tr>
<td>Description</td>
<td>This double degree, which can also accommodate a Criminology minor, combines the Forensic Biology and Toxicology, Molecular Biology and Biomedical Science majors to generate a cognate and broad program designed to enhance the employment prospects of graduates seeking careers in forensics, molecular genetics and/or in medical research. It is designed to produce forensic professionals with well-honed skills in DNA-profiling/ancient DNA analysis who are competent in the forensic analytical techniques relevant to drug and toxin detection and quantification in fluids, tissues and contaminated products. Students in the program are also introduced to aspects of forensic pathology, forensic anthropology and forensic botany/palynology with an emphasis on the collection of evidence and its presentation in court. The forensic content is complemented by thorough training in the related areas of molecular genetics, biochemistry, medical microbiology/immunology, biomedical physiology and the recognition, aetiology and mechanisms of disease. Graduates will be awarded a BForensics (Forensic Biology and Toxicology) and a BSc (Molecular Biology and Biomedical Science.) For more information see the individual entries for the Forensic Biology and Toxicology, Molecular Biology and Biomedical Science majors in this section of the Handbook.</td>
</tr>
</tbody>
</table>
## Checklist of Units & Prerequisites

### Biological Sciences (BSc)

#### Course Structure — 72 points

#### Part I — 24 points

**A Foundation Unit — 3 points**

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

**Core Units — 12 points**

- BIO152 Cell Biology — 3 pts  
  Murd: 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  
- PEC144 Chemical Principles — 3 pts  
  Murd: S1-Int, S1-Ext, S2-Int, S2-Ext  

Students who do not have a satisfactory level of Chemistry, as determined by the Program Chair, are required to enrol in PEC140 Introduction to Chemistry — 3 pts [Murd: S1-Int, S1-Ext, S2-Int, S2-Ext] as a prerequisite for BIO152 Cell Biology — 3 pts and PEC144 Chemical Principles — 3 pts.

**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. Please refer to any recommended Double Majors and Minors listed in the description of this course.

#### Part II — 48 points

**Core Units — 28 points**

- BIO261 Animal Diversity — 4 pts  
  Murd: S1-Int  
- BIO263 Microbiology I — 4 pts  
  Murd: S1-Int  
- BIO265 Plant Diversity — 4 pts  
  Murd: S1-Int  
- BIO270 Biochemistry I — 4 pts  
  Murd: S2-Int  
- BIO372 Genetics — 4 pts  
  Murd: S2-Int  
- BIO369 Evolutionary Biology — 4 pts  
  Murd: S2-Int  
- ENV268 Ecology — 4 pts  
  Murd: S2-Int, S2-Ext  

**Prerequisites — Biological Sciences (BSc)**

- **Animal Diversity (BIO261)**
  Prerequisites: N103/BIO103 Environmental Biology.

- **Biochemistry I (BIO270)**
  Prerequisites: N152/BIO152 Cell Biology and either PEC144 Chemical Principles or M114/PEC114 Chemistry for Biological Sciences or M115/PEC115 Chemistry for Environmental Science or M116/PEC116 Chemistry for Physical Sciences.

- **Cell Biology (BIO152)**
  Prerequisites: A thorough knowledge of Year 12 secondary level Chemistry is assumed. Students who did not achieve a final scaled score of 61% or more in TEE Chemistry within the three years immediately preceding enrolment are required to pass M140/PEC140 Introduction to Chemistry or PEC144 Chemical Principles or M114/PEC114 Chemistry for Biological Sciences or M115/PEC115 Chemistry for Environmental Science or M116/PEC116 Chemistry for Physical Sciences prior to enrolling.

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

- **Environmental Biology (BIO103)**
  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 — Biological Sciences (BSc)  
(Continued)

Evolutionary Biology (BIO369)  
Prerequisites: Completion of or concurrent enrolment in N372/BIO372 Genetics AND completion of at least one of: N261/BIO261 Animal Diversity, N265/BIO265 Plant Diversity, BIO287 Plant Diversity (Marine Science), N268/ENV268 Ecology. Or permission of unit coordinator.

Genetics (BIO372)  
Prerequisites: N152/BIO152 Cell Biology and either M183/MAS183 Statistical Data Analysis and Databases or M182/MAS182 Applied Mathematics or M184/MAS184 Biostatistics and Information Retrieval.

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.

Microbiology I (BIO263)  
Prerequisites: N152/BIO152 Cell Biology.

Plant Diversity (BIO265)  
Prerequisites: N103/BIO103 Environmental Biology.

Statistical Data Analysis and Databases (MAS183)
Biotechnology (BSc)
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
PEC144 Chemical Principles — 3 pts
Murd: S1-Int, S1-Ext, S2-Int, S2-Ext
Students who do not have a satisfactory level of Chemistry, as determined by the Program Chair, are required to enrol in PEC140 Introduction to Chemistry — 3 pts as a prerequisite for BIO152 Cell Biology — 3 pts and PEC144 Chemical Principles — 3 pts.
BIO103 Environmental Biology — 3 pts
Murd: S1-Int, S1-Ext
Students enrolled in a double major with Biomedical Science or Forensic Biology and Toxicology may complete BMS101 Introduction to the Human Body — 3 pts instead of BIO103 Environmental Biology — 3 pts.
BIO152 Cell Biology — 3 pts
Murd: S2-Int
MAS183 Statistical Data Analysis and Databases — 3 pts
Murd: S1-Int, S1-Ext, S2-Int, S2-Ext
Students completing a double major with Chemistry should complete MAS182 Applied Mathematics — 3 pts instead of MAS183 Statistical Data Analysis and Databases — 3 pts.

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. Please refer to any recommended Double Majors and Minors listed in the description of this course.

Part II — 48 points

Core Units — 28 points
BIO270 Biochemistry I — 4 pts
Murd: S2-Int
BIO263 Microbiology I — 4 pts
Murd: S1-Int
BIO212 Genetic Engineering — 4 pts
Murd: S1-Int
BUS215 Business Feasibility and Management Concepts — 4 pts Murd: S1-Int, S1-Ext
BIO301 Industrial Bioprocessing and Bioremediation — 4 pts Murd: S2-Int
BIO253 Plant Biotechnology and Proteomics — 4 pts
Murd: S1-Int
BIO252 Immunology, Vaccines and Cell Culture — 4 pts
Murd: S2-Int

Students enrolled in a double major with Biomedical Science must complete BMS203 Comparative and Human Microbiology — 4 pts instead of BIO263 Microbiology I — 4 pts.
Students enrolled in a double major with Chemistry are exempt from BUS215 Business Feasibility and Management Concepts — 4 pts and from one of the 300-level Chemistry units.

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. Please refer to any recommended Double Majors and Minors listed in the description of this course.

Prerequisites — Biotechnology (BSc)
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.

Biochemistry I (BIO270)
Prerequisites: N152/BIO152 Cell Biology and either PEC144 Chemical Principles or M114/PEC114 Chemistry for Biological Sciences or M115/PEC115 Chemistry for Environmental Science or M116/PEC116 Chemistry for Physical Sciences.

Bus Feasibility and Management Concepts (BUS215)
Prerequisites — Biotechnology (BSc) (Continued)

Cell Biology (BIO152)
Prerequisites: A thorough knowledge of Year 12 secondary level Chemistry is assumed. Students who did not achieve a final scaled score of 61% or more in TEE Chemistry within the three years immediately preceding enrolment are required to pass M140/PEC140 Introduction to Chemistry or PEC144 Chemical Principles or M114/PEC114 Chemistry for Biological Sciences or M115/PEC115 Chemistry for Environmental Science or M116/PEC116 Chemistry for Physical Sciences prior to enrolling.

Comparative and Human Microbiology (BMS203)
Prerequisites: BIO152 Cell Biology

Environmental Biology (BIO103)
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.

Genetic Engineering (BIO212)
Prerequisites: N152/BIO152 Cell Biology.

Immunology, Vaccines and Cell Culture (BIO252)
Prerequisites: N152/BIO152 Cell Biology.

Industrial Bioprocessing and Bioremediation (BIO301)
Prerequisites: N263/BIO263 Microbiology I and either successful completion or concurrent enrolment in N270/BIO270 Biochemistry I. For Bioprocess Engineering students the prerequisite is BIO263 Microbiology I and PEC238 Biological Chemistry.

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 the Human Body (BMS101)

Microbiology I (BIO263)
Prerequisites: N152/BIO152 Cell Biology.

Plant Biotechnology and Proteomics (BIO253)
Prerequisites: N152/BIO152 Cell Biology.

Statistical Data Analysis and Databases (MAS183)
Biotechnology (BSc) + Management (BCom), Biotechnology (BSc) + Marketing Management (BCom), Biotechnology (BSc) + Entrepreneurship and Innovation (BCom)

Course Structure — 96 points

Part I — 24 or 27 points

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

Core Units — Marketing Management, 21 points; Management/Entrepreneurship and Innovation, 24 points

BIO103 Environmental Biology — 3 pts
Murd: S1-Int, S1-Ext

BIO152 Cell Biology — 3 pts
Murd: S2-Int

PEC144 Chemical Principles — 3 pts
Murd: S1-Int, S1-Ext, S2-Int, S2-Ext

Students who do not have a satisfactory level of Chemistry, as determined by the Program Chair, are required to enrol in PEC140 Introduction to Chemistry — 3 pts [Murd: S1-Int, S1-Ext, S2-Int, S2-Ext] as a prerequisite for BIO152 Cell Biology — 3 pts and PEC144 Chemical Principles — 3 pts.

MAS183 Statistical Data Analysis and Databases — 3 pts
Murd: S1-Int, S1-Ext, S2-Int, S2-Ext

BUS165 Principles of Commercial Law — 3 pts
Murd: S1-Int, S1-Ext, S2-Int
Peel: S2-Int Rock: S2-Int

BUS169 Principles of Marketing — 3 pts
Murd: S1-Int, S2-Int
Peel: S1-Int Rock: S2-Int

Entrepreneurship and Innovation

BUS145 Principles of Management — 3 pts
Murd: F3-Int, S1-Int, S2-Int
Peel: S1-Int Rock: S2-Int

BUS140 Principles of Finance and Banking — 3 pts
Murd: S1-Int, S2-Int
Peel: S1-Int Rock: S1-Int

Marketing Management

BUS160 Introduction to Accounting — 3 pts
Murd: S1-Int, S2-Int
Peel: S1-Int Rock: S2-Int
Management

BUS160 Introduction to Accounting — 3 pts
Murd: S1-Int, S2-Int
Peel: S1-Int Rock: S2-Int

BUS145 Principles of Management — 3 pts
Murd: F3-Int, S1-Int, S2-Int
Peel: S1-Int Rock: S2-Int

Part II — 72 or 68 points

Core Units — 48 points

Biotechnology

BIO212 Genetic Engineering — 4 pts
Murd: S1-Int

BIO263 Microbiology I — 4 pts
Murd: S1-Int

BIO270 Biochemistry I — 4 pts
Murd: S2-Int

BIO252 Immunology, Vaccines and Cell Culture — 4 pts
Murd: S2-Int

BIO253 Plant Biotechnology and Proteomics — 4 pts
Murd: S1-Int

BIO301 Industrial Bioprocessing and Bioremediation — 4 pts
Murd: S2-Int

Entrepreneurship and Innovation

BUS214 Marketing Development and Planning — 4 pts
Murd: F3-Int, S1-Int

BUS273 Consumer Behaviour — 4 pts
Murd: S2-Int

BUS209 Marketing and Advertising Law — 4 pts
Murd: S1-Int

BUS335 Marketing Research and Analysis — 4 pts
Murd: S2-Int
plus at least two of the following:

BUS208 Quantitative Methods for Business and Economics — 4 pts
Murd: S2-Int, S2-Ext

BUS321 International Marketing — 4 pts
Murd: S1-Int

BUS336 Integrated Marketing Communications — 4 pts
Murd: F3-Int, S1-Int

BUS324 Services Marketing — 4 pts
Murd: F3-Int, S2-Int

BUS305 Digital Marketing — 4 pts
Murd: S1-Int

BUS339 Advertising Production — 4 pts
Murd: S1-Int

Management

BUS223 Organisational Theory and Behaviour — 4 pts
Murd: S1-Int

BUS240 Human Resources and Organisational Development — 4 pts
Murd: S2-Int

BUS228 Workplace Law — 4 pts
Murd: F3-Int, S2-Int

BUS317 Strategic Management — 4 pts
Murd: S2-Int

BUS320 Advanced HR Perspectives — 4 pts
Murd: S1-Int
plus at least one of the following:

BUS222 Employee Relations — 4 pts
Murd: S1-Int

BUS323 International Management — 4 pts
Murd: S1-Int

BUS378 Knowledge and Organisational Learning — 4 pts
Murd: S1-Int
General Electives — Marketing Management, 24 points; Management/Entrepreneurship and Innovation, 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, minor or a Professional Placement. Please refer to any recommended Double Majors and Minors listed in the description of this course.

Note: Students completing Biotechnology + Management or Biotechnology + Entrepreneurship and Innovation will be granted 1 point of general credit once they have completed all requirements for their chosen course, in order to meet all completion requirements.

Honours
Students who have successfully completed the four-year course and have achieved good grades in their units are encouraged to apply for admission to Honours in either the biotechnology or commerce majors. Honours provides students with an opportunity to gain practical experience in research techniques, develop their skills in project planning and development, and to expand their knowledge in a relevant area. Students must first obtain the agreement of a staff member(s) willing to supervise the project.

Students interested in Honours enrolment are advised to contact the relevant Program Chair before applying to discuss supervision of their potential research. Application forms are available from the Prospective Students’ and Admissions Centre.

Students who achieve a satisfactory Honours grade will be eligible to apply for admission to postgraduate study.

Prerequisites — Biotechnology (BSc) + Management (BCom), Biotechnology (BSc) + Marketing Management (BCom), Biotechnology (BSc) + Entrepreneurship and Innovation (BCom)

Advanced HR Perspectives (BUS320)
Prerequisites: C145/BUS145 Principles of Management and either C240/BUS240 Organisation Management and Development or BUS240 Human Resources and Organisational Development.

Advertising Production (BUS339)

Applied Business Innovation (BUS331)
Prerequisites: BUS274 Entrepreneurship and Innovation.

Biochemistry I (BIO270)
Prerequisites: N152/BIO152 Cell Biology and either PEC144 Chemical Principles or M114/PEC114 Chemistry for Biological Sciences or M115/PEC115 Chemistry for Environmental Science or M116/PEC116 Chemistry for Physical Sciences.

Business Feasibility and Management Concepts (BUS215)

Cell Biology (BIO152)
Prerequisites: A thorough knowledge of Year 12 secondary level Chemistry is assumed. Students who did not achieve a final scaled score of 61% or more in TEE Chemistry within the three years immediately preceding enrolment are required to pass M140/PEC140 Introduction to Chemistry or PEC144 Chemical Principles or M114/PEC114 Chemistry for Biological Sciences or M115/PEC115 Chemistry for Environmental Science or M116/PEC116 Chemistry for Physical Sciences prior to enrolling.

Consumer Behaviour (BUS273)
Prerequisites: C169/BUS169 Principles of Marketing or C213/TOU213 Tourism Marketing.

Digital Marketing (BUS305)
Prerequisites: C214/BUS214 Marketing Development and Planning.

Employee Relations (BUS222)
Prerequisites: C145/BUS145 Principles of Management or enrolment in the Graduate Certificate in Human Resource Management or the Graduate Diploma in Human Resource Management.

Entrepreneurship and Innovation (BUS274)
Prerequisites: BUS145 Principles of Management.

Environmental Biology (BIO103)
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 — Biotechnology (BSc) + Management (BCom), Biotechnology (BSc) + Marketing Management (BCom), Biotechnology (BSc) + Entrepreneurship and Innovation (BCom) (Continued)

Genetic Engineering (BIO212)
Prerequisites: N152/BIO152 Cell Biology.

Human Resources and Organisational Development (BUS240)
Prerequisites: C145/BUS145 Principles of Management.

Immunology, Vaccines and Cell Culture (BIO252)
Prerequisites: N152/BIO152 Cell Biology.

Industrial Bioprocessing and Bioremediation (BIO301)
Prerequisites: N263/BIO263 Microbiology I and either successful completion or concurrent enrolment in N270/BIO270 Biochemistry I. For Bioprocess Engineering students the prerequisite is BIO263 Microbiology I and PEC238 Biological Chemistry.

Integrated Marketing Communications (BUS336)
Prerequisites: C214/BUS214 Marketing Development and Planning and C273/BUS273 Consumer Behaviour.

International Management (BUS323)
Prerequisites: C240/BUS240 Organisation and Management Development or C223/BUS223 Organisational Theory and Behaviour.

International Marketing (BUS321)
Prerequisites: C214/BUS214 Marketing Development and Planning and C273/BUS273 Consumer Behaviour.

Introduction to Accounting (BUS160)

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.

Knowledge and Organisational Learning (BUS378)

Marketing and Advertising Law (BUS209)
Prerequisites: BUS165 Principles of Commercial Law.

Marketing Development and Planning (BUS214)
Prerequisites: C169/BUS169 Principles of Marketing or C213/TOU213 Tourism Marketing.

Marketing Research and Analysis (BUS335)
Prerequisites: M180/MAS180 Introduction to Statistics and C214/BUS214 Marketing Development and Planning.

Microbiology I (BIO263)
Prerequisites: N152/BIO152 Cell Biology.

Organisational Theory and Behaviour (BUS223)
Prerequisites: C145/BUS145 Principles of Management or enrolment in the Graduate Certificate in Human Resource Management or the Graduate Diploma in Human Resource Management.

Plant Biotechnology and Proteomics (BIO253)
Prerequisites: N152/BIO152 Cell Biology.

Principles of Commercial Law (BUS165)

Principles of Finance and Banking (BUS140)

Principles of Management (BUS145)

Principles of Marketing (BUS169)

Quantitative Methods for Business and Economics (BUS208)

Services Marketing (BUS324)
Prerequisites: C214/BUS214 Marketing Development and Planning and C273/BUS273 Consumer Behaviour.

Statistical Data Analysis and Databases (MAS183)

Strategic Management (BUS317)
Prerequisites: C240/BUS240 Organisation and Management Development and either C223/BUS223 Organisational Theory and Behaviour or C320/BUS320 Human Resources Management.

Technology and the Law (BUS216)
Prerequisites: BUS165 Principles of Commercial Law.

Workplace Law (BUS228)
Prerequisites: C165/BUS165 Principles of Commercial Law.
Conservation and Wildlife Biology (BSc)

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
- BIO152 Cell Biology — 3 pts
  Murd: S2-Int
- MAS183 Statistical Data Analysis and Databases — 3 pts
  Murd: S1-Int, S1-Ext, S2-Int, S2-Ext
Students who do not have a satisfactory level of Chemistry, as determined by the Program Chair, are required to enrol in PEC140 Introduction to Chemistry — 3 pts (Murd: S1-Int, S1-Ext, S2-Int, S2-Ext) as a prerequisite for BIO152 Cell Biology — 3 pts.

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. Please refer to any recommended Double Majors and Minors listed in the description of this course.

Part II — 48 points

Core Units — 28 points
- BIO261 Animal Diversity — 4 pts
  Murd: S1-Int
- BIO265 Plant Diversity — 4 pts
  Murd: S1-Int
- ENV268 Ecology — 4 pts
  Murd: S2-Int, S2-Ext
- BIO372 Genetics — 4 pts
  Murd: S2-Int
- BIO368 Conservation Biology — 4 pts
  Murd: S1-Int
- ENV228 Environmental Policy and Law — 4 pts
  Murd: S2-Int, S2-Ext
- BIO317 Wildlife Biology — 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. Please refer to any recommended Double Majors and Minors listed in the description of this course.

Prerequisites — Conservation and Wildlife Biology (BSc)
- Animal Diversity (BIO261)
  Prerequisites: N103/BIO103 Environmental Biology.
- Cell Biology (BIO152)
  Prerequisites: A thorough knowledge of Year 12 secondary level Chemistry is assumed. Students who did not achieve a final scaled score of 61% or more in TEE Chemistry within the three years immediately preceding enrolment are required to pass M140/PEC140 Introduction to Chemistry or PEC144 Chemical Principles or M114/PEC114 Chemistry for Biological Sciences or M115/PEC115 Chemistry for Environmental Science or M116/PEC116 Chemistry for Physical Sciences prior to enrolling.
- Conservation Biology (BIO368)
  Prerequisites: N268/ENV268 Ecology or enrolment in the MSc Environmental Science.
- Ecology (ENV268)
  Prerequisites: BIO103 Environmental Biology or the Bachelor of Applied Science in Environmental Science.
- Environmental Biology (BIO103)
  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)
- Genetics (BIO372)
  Prerequisites: N152/BIO152 Cell Biology and either M183/MAS183 Statistical Data Analysis and Databases or M182/MAS182 Applied Mathematics or M184/MAS184 Biostatistics and Information Retrieval.
- 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)
- Plant Diversity (BIO265)
  Prerequisites: N103/BIO103 Environmental Biology.
- Statistical Data Analysis and Databases (MAS183)
- Wildlife Biology (BIO317)
  Prerequisites: BIO368 Conservation Biology
Molecular Biology (BSc)

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
- BIO152 Cell Biology — 3 pts
  Murd: S2-Int
- PEC144 Chemical Principles — 3 pts
  Murd: S1-Int, S1-Ext, S2-Int, S2-Ext
- MAS183 Statistical Data Analysis and Databases — 3 pts
  Murd: S1-Int, S1-Ext, S2-Int, S2-Ext

Students enrolled in a double major with Biomedical Science or Forensic Biology and Toxicology may complete BMS101 Introduction to the Human Body — 3 pts [Murd: S1-Int] in place of BIO103 Environmental Biology — 3 pts.

Students who do not have a satisfactory level of Chemistry, as determined by the Program Chair, are required to enrol in PEC140 Introduction to Chemistry — 3 pts [Murd: S1-Int, S1-Ext, S2-Int, S2-Ext] as a prerequisite for BIO152 Cell Biology — 3 pts and PEC144 Chemical Principles — 3 pts.

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. Please refer to any recommended Double Majors and Minors listed in the description of this course.

Part II — 48 points

Core Units — 24 points

- BIO212 Genetic Engineering — 4 pts
  Murd: S1-Int
- BIO372 Genetics — 4 pts
  Murd: S2-Int
- BIO316 Molecular Genetics — 4 pts
  Murd: S1-Int

- BIO263 Microbiology I — 4 pts
  Murd: S1-Int
  OR
- BMS203 Comparative and Human Microbiology — 4 pts
  Murd: S2-Int
- BIO270 Biochemistry I — 4 pts
  Murd: S2-Int
  OR
- BMS261 Human and Comparative Biochemistry — 4 pts
  Murd: S1-Int
- BIO371 Biochemistry II — 4 pts
  Murd: S2-Int
  OR
- BIO364 Microbiology II — 4 pts
  Murd: S1-Int

Microbiology — 4 pts [Murd: S2-Int] in place of BIO263 Microbiology I — 4 pts.

Students enrolled in a double major with Animal Science must complete ANS252 Animal Molecular Biology — 4 pts [Murd: S1-Int] in place of BIO212 Genetic Engineering — 4 pts, ANS251 Agricultural Biochemistry — 4 pts [Murd: S1-Int] in place of BIO270 Biochemistry I — 4 pts, ANS351 Animal Microbiology — 4 pts Murd: S2-Int in place of BIO263 Microbiology I — 4 pts AND are required to complete both BIO371 Biochemistry II — 4 pts Murd: S2-Int and BIO364 Microbiology II — 4 pts [Murd: S1-Int] Students enrolled in a double major with Biomedical Science are required to complete BMS203 Comparative and Human

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. Please refer to any recommended Double Majors and Minors listed in the description of this course.

Prerequisites — Molecular Biology (BSc)
Agricultural Biochemistry (ANS251)
Prerequisites: Enrolment in Bachelor of Animal Science and BIO152 Cell Biology.
Prerequisites — Molecular Biology (BSc) (Continued)

Animal Microbiology (ANS351)
Prerequisites: Enrolment in Bachelor of Animal Science and ANS251 Agricultural Biochemistry and BIO252 Agricultural Biotechnology.

Animal Molecular Biology (ANS252)
Prerequisites: Enrolment in Bachelor of Animal Science and BIO152 Cell Biology and PEC140 Introduction to Chemistry.

Biochemistry I (BIO270)
Prerequisites: N152/BIO152 Cell Biology and either PEC144 Chemical Principles or M114/PEC114 Chemistry for Biological Sciences or M115/PEC115 Chemistry for Environmental Science or M116/PEC116 Chemistry for Physical Sciences.

Biochemistry II (BIO371)
Prerequisites: N270/BIO270 Biochemistry I or V261/BMS261 Human and Comparative Biochemistry or ANS251 Agricultural Biochemistry.

Cell Biology (BIO152)
Prerequisites: A thorough knowledge of Year 12 secondary level Chemistry is assumed. Students who did not achieve a final scaled score of 61% or more in TEE Chemistry within the three years immediately preceding enrolment are required to pass M140/PEC140 Introduction to Chemistry or PEC144 Chemical Principles or M114/PEC114 Chemistry for Biological Sciences or M115/PEC115 Chemistry for Environmental Science or M116/PEC116 Chemistry for Physical Sciences prior to enrolling.

Comparative and Human Microbiology (BMS203)
Prerequisites: BIO152 Cell Biology

Environmental Biology (BIO103)
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.

Genetic Engineering (BIO212)
Prerequisites: N152/BIO152 Cell Biology.

Genetics (BIO372)
Prerequisites: N152/BIO152 Cell Biology and either M183/MAS183 Statistical Data Analysis and Databases or M182/MAS182 Applied Mathematics

Human and Comparative Biochemistry (BMS261)
Prerequisites: N152/BIO152 Cell Biology.

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 the Human Body (BMS101)

Microbiology I (BIO263)
Prerequisites: N152/BIO152 Cell Biology.

Microbiology II (BIO364)
Prerequisites: N263/BIO263 Microbiology I or V361/BMS361 Medical Microbiology or ANS351 Animal Microbiology or BMS203 Comparative and Human Microbiology.

Molecular Genetics (BIO316)
Prerequisites: BIO212 Genetic Engineering or ANS252 Animal Molecular Biology.

Statistical Data Analysis and Databases (MAS183)
Forensic Biology and Toxicology (BForensics)

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 — 15 points

- BMS101 Introduction to the Human Body — 3 pts
  Murd: S1-Int
  Students enrolled in a double major with Molecular Biology may complete BIO103 Environmental Biology — 3 pts [Murd: S1-Int, S1-Ext] instead of BMS101 Introduction to the Human Body — 3 pts.

- PEC103 Introduction to Forensic Science — 3 pts
  Murd: S2-Int

- BIO152 Cell Biology — 3 pts
  Murd: S2-Int

- PEC144 Chemical Principles — 3 pts
  Murd: S1-Int, S1-Ext, S2-Int, S2-Ext

- MAS183 Statistical Data Analysis and Databases — 3 pts
  Murd: S1-Int, S1-Ext, S2-Int, S2-Ext

Students who do not have a satisfactory level of Chemistry, as determined by the Program Chair, are required to enrol in PEC140 Introduction to Chemistry — 3 pts [Murd: S1-Int, S1-Ext, S2-Int, S2-Ext] as a prerequisite for BIO152 Cell Biology — 3 pts and PEC144 Chemical Principles — 3 pts Murd: S1-Int, S1-Ext, S2-Int, S2-Ext

Students enrolled in a double major with Chemistry should take MAS182 Applied Mathematics — 3 pts [Murd: S1-Int, S1-Ext, S2-Int, S2-Ext] instead of MAS183 Statistical Data Analysis and Databases — 3 pts.

General Electives — 6 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. Please refer to any recommended Double Majors and Minors listed in the description of this course.

Also recommended:

- FNSEC2200 Mysteries of Forensic Science — 3 pts equivalent
  UWA: S2X-Int

This is a unit offered by the University of Western Australia and is available on a cross-institutional basis to all students enrolled in the Forensic Biology and Toxicology major. For details please contact the Program Chair.

Part II — 48 points

Core Units — 28 points

- BIO212 Genetic Engineering — 4 pts
  Murd: S1-Int

- BIO270 Biochemistry I — 4 pts
  Murd: S2-Int

- BIO215 Bodies of Evidence — 4 pts
  Murd: S1-Int

- PEC240 Analytical Chemistry — 4 pts
  Murd: S1-Int, S1-Ext

- PEC340 Instrumental Analysis — 4 pts
  Murd: S2-Int, S2-Ext

- BIO313 Forensic DNA Analysis — 4 pts
  Murd: S1-Int

- BIO314 Forensic Toxicology — 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. Please refer to any recommended Double Majors and Minors listed in the description of this course.

A triple major (Double Degree) with Molecular Biology and Biomedical Science which can also incorporate a Criminology minor is highly recommended. See the separate description in this section of the Handbook.

Prerequisites — Forensic Biology and Toxicology (BForensics)

Analytical Chemistry (PEC240)
Prerequisites: PEC114 Chemistry for Biological Sciences or PEC115 Chemistry for Environmental Science or PEC116 Chemistry for Physical Sciences or PEC144 Chemical Principles.
Prerequisites — Forensic Biology and Toxicology (BForensics) (Continued)

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.

Biochemistry I (BIO270)
Prerequisites: N152/BIO152 Cell Biology and either PEC144 Chemical Principles or M114/PEC114 Chemistry for Biological Sciences or M115/PEC115 Chemistry for Environmental Science or M116/PEC116 Chemistry for Physical Sciences.

Bodies of Evidence (BIO215)
Prerequisites: PEC144 Chemical Principles OR M114/PEC114 Chemistry for Biological Sciences OR M115/PEC115 Chemistry for Environmental Science OR M116/PEC116 Chemistry for Physical Sciences; BIO152 Cell Biology; PEC235 Forensic Science OR PEC103 Introduction to Forensic Science.

Cell Biology (BIO152)
Prerequisites: A thorough knowledge of Year 12 secondary level Chemistry is assumed. Students who did not achieve a final scaled score of 61% or more in TEE Chemistry within the three years immediately preceding enrolment are required to pass M140/PEC140 Introduction to Chemistry or PEC144 Chemical Principles or M114/PEC114 Chemistry for Biological Sciences or M115/PEC115 Chemistry for Environmental Science or M116/PEC116 Chemistry for Physical Sciences prior to enrolling.

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.

Environmental Biology (BIO103)
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.

Forensic DNA Analysis (BIO313)
Prerequisites: BIO202 Molecular Biology I or BIO212 Genetic Engineering.

Forensic Toxicology (BIO314)
Prerequisites: M240/PEC240 Analytical Chemistry; M235/PEC235 Forensic Science or PEC103 Introduction to Forensic Science; N270/BIO270 Biochemistry 1 or V261/BMS261 Human and Comparative Biochemistry; successful completion of, or concurrent enrolment in, M340/PEC340 Instrumental Analysis.

Genetic Engineering (BIO212)
Prerequisites: N152/BIO152 Cell Biology.

Instrumental Analysis (PEC340)
Prerequisites: PEC240 Analytical Chemistry.

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 Forensic Science (PEC103)
Introduction to the Human Body (BMS101)
Statistical Data Analysis and Databases (MAS183)
Forensic Biology and Toxicology (BForensics) + Molecular Biology (BSc) + Biomedical Science (BSc)

**Course Structure — 96 points**

**Part I — 24 points**

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

**Core Units — 18 points**

- BMS101 Introduction to the Human Body — 3 pts
  Murd: S1-Int
- OR
- BIO103 Environmental Biology — 3 pts
  Murd: S1-Ext
- BIO152 Cell Biology — 3 pts
  Murd: S2-Int
- PEC144 Chemical Principles — 3 pts
  Murd: S1-Ext, S2-Int, S2-Ext
- BMS107 Principles of Vertebrate Physiology — 3 pts
  Murd: S2-Int
- MAS183 Statistical Data Analysis and Databases — 3 pts
  Murd: S1-Int, S1-Ext, S2-Int, S2-Ext
- OR
- PEC103 Introduction to Forensic Science — 3 pts
  Murd: S2-Int

Students who do not have a satisfactory level of Chemistry, as determined by the Program Chair, are required to enrol in PEC140 Introduction to Chemistry — 3 pts as a prerequisite for BIO152 Cell Biology — 3 pts and PEC144 Chemical Principles — 3 pts.

**General Electives — 3 points**
Select from any 100-level units offered by the University, subject to individual unit prerequisites.

Recommended:
- FNSC2200 Mysteries of Forensic Science — 3 pts equivalent
  UWA:S2X-Int

This is a unit offered by the University of Western Australia and is available on a cross-institutional basis to all students enrolled in the Forensic Biology and Toxicology major. For details please contact the Program Chair.

Student undertaking the Criminology Minor are required to enrol in one of the following:

**Part II — 72 points**

**Core Units — 60 points**

- BMS264 Biomedical Physiology — 4 pts
  Murd: S1-Int
- BIO212 Genetic Engineering — 4 pts
  Murd: S1-Int
- BIO270 Biochemistry I — 4 pts
  Murd: S2-Int
- BMS203 Comparative and Human Microbiology — 4 pts
  Murd: S2-Int
- PEC240 Analytical Chemistry — 4 pts
  Murd: S1-Int, S1-Ext
- BIO215 Bodies of Evidence — 4 pts
  Murd: S1-Int
- BIO252 Immunology, Vaccines and Cell Culture — 4 pts
  Murd: S2-Int
- OR
- BMS265 Medical Immunology and Molecular Genetics — 4 pts
  Murd: S2-Int
- BIO316 Molecular Genetics — 4 pts
  Murd: S1-Int
- BIO313 Forensic DNA Analysis — 4 pts
  Murd: S1-Int
- BMS360 Mechanisms of Disease — 4 pts
  Murd: S1-Int
- BMS368 Advances in Medical Science — 4 pts
  Murd: S2-Int
- BIO314 Forensic Toxicology — 4 pts
  Murd: S2-Int
- PEC340 Instrumental Analysis — 4 pts
  Murd: S2-Int
- BIO372 Genetics — 4 pts
  Murd: S2-Int
- BIO371 Biochemistry II — 4 pts
  Murd: S2-Int
- OR
- BIO364 Microbiology II — 4 pts
  Murd: S1-Int
General Electives — 12 points

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

Students enrolled in the Criminology Minor are required to enrol in three of the following:

- LEG210 Criminal Behaviour — 4 pts Murd: S1-Int
- LEG209 Psychology and Law — 4 pts Murd: S2-Int
- LEG219 Criminal Law in Western Australia — 4 pts Murd: S2-Int
- LEG205 Criminal Justice — 4 pts Murd: S1-Int
- LEG220 Sentencing and Penology — 4 pts Murd: S1-Int
- LEG206 Criminology — 4 pts Murd: S2-Int

Prerequisites — Forensic Biology and Toxicology (BForensics) + Molecular Biology (BSc) + Biomedical Science (BSc)

Advances in Medical Science (BMS368)
Prerequisites: BMS203 Human and Comparative Microbiology or BMS361 Comparative and Human Microbiology or BIO263 Microbiology I + (one of BMS265 Medical Immunology and Molecular Genetics or BIO252 Animal Biotechnology)

Analytical Chemistry (PEC240)
Prerequisites: PEC114 Chemistry for Biological Sciences or PEC115 Chemistry for Environmental Science or PEC116 Chemistry for Physical Sciences or PEC144 Chemical Principles.

Australian Legal System (LEG150)

Biochemistry I (BIO270)
Prerequisites: N152/BIO152 Cell Biology and either PEC144 Chemical Principles or M114/PEC114 Chemistry for Biological Sciences or M115/PEC115 Chemistry for Environmental Science or M116/PEC116 Chemistry for Physical Sciences.

Biochemistry II (BIO371)
Prerequisites: N270/BIO270 Biochemistry I or V261/BMS261 Human and Comparative Biochemistry or ANS251 Agricultural Biochemistry.

Biomedical Physiology (BMS264)
Prerequisites: BMS107 Principles of Vertebrate Biology or N362/BIO362 Comparative Animal Physiology.

Bodies of Evidence (BIO215)
Prerequisites: PEC144 Chemical Principles OR M114/PEC114 Chemistry for Biological Sciences OR M115/PEC115 Chemistry for Environmental Science OR M116/PEC116 Chemistry for Physical Sciences; BIO152 Cell Biology; PEC235 Forensic Science OR PEC103 Introduction to Forensic Science.

Cell Biology (BIO152)
Prerequisites: A thorough knowledge of Year 12 secondary level Chemistry is assumed. Students who did not achieve a final scaled score of 61% or more in TEE Chemistry within the three years immediately preceding enrolment are required to pass M140/PEC140 Introduction to Chemistry or PEC144 Chemical Principles or M114/PEC114 Chemistry for Biological Sciences or M115/PEC115 Chemistry for Environmental Science or M116/PEC116 Chemistry for Physical Sciences prior to enrolling.

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.

Comparative and Human Microbiology (BMS203)
Prerequisites: BIO152 Cell Biology

Criminal Behaviour (LEG210)

Criminal Justice (LEG205)

Criminal Law in Western Australia (LEG219)
Prerequisites: L170/LEG170 Legal Process or L100/LEG100 Law, Justice and Social Policy or LEG150 Australian Legal System or permission of the Unit Coordinator and Program Chair.

Criminology (LEG206)
Prerequisites: L170/LEG170 Legal Process or L100/LEG100 Law, Justice and Social Policy or LEG150 Australian Legal System.

Environmental Biology (BIO103)
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 — Forensic Biology and Toxicology (BForensics) + Molecular Biology (BSc) + Biomedical Science (BSc) (Continued)

Forensic DNA Analysis (BIO313)
Prerequisites: BIO202 Molecular Biology I or BIO212 Genetic Engineering.

Forensic Toxicology (BIO314)
Prerequisites: M240/PEC240 Analytical Chemistry; M235/PEC235 Forensic Science or PEC103 Introduction to Forensic Science; N270/BIO270 Biochemistry 1 or V261/BMS261 Human and Comparative Biochemistry; successful completion of, or concurrent enrolment in, M340/PEC340 Instrumental Analysis.

Genetic Engineering (BIO212)
Prerequisites: N152/BIO152 Cell Biology.

Genetics (BIO372)
Prerequisites: N152/BIO152 Cell Biology and either M183/MAS183 Statistical Data Analysis and Databases or M182/MAS182 Applied Mathematics or M184/MAS184 Biostatistics and Information Retrieval.

Immunology, Vaccines and Cell Culture (BIO252)
Prerequisites: N152/BIO152 Cell Biology.

Instrumental Analysis (PEC340)
Prerequisites: PEC240 Analytical Chemistry.

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 Forensic Science (PEC103)

Introduction to the Human Body (BMS101)

Law, Justice and Social Policy (LEG100)

Mechanisms of Disease (BMS360)
Prerequisites: V264/BMS264 Biomedical Physiology and either V261/BMS261 Human and Comparative Biochemistry or N270/BIO270 Biochemistry I.

Medical Immunology and Molecular Genetics (BMS265)
Prerequisites: V261/BMS261 Human and Comparative Biochemistry or concurrent enrolment in N270/BIO270 Biochemistry I.

Microbiology II (BIO364)
Prerequisites: N263/BIO263 Microbiology I or V361/BMS361 Medical Microbiology or ANS351 Animal Microbiology or BMS203 Comparative and Human Microbiology.

Molecular Genetics (BIO316)
Prerequisites: BIO212 Genetic Engineering or ANS252 Animal Molecular Biology.

Principles of Vertebrate Physiology (BMS107)
PBMS101 Introduction to the Human Body or ANS102 Introduction to the Animal Body are strongly recommended as precursor units.

Psychology and Law (LEG209)
Prerequisites: L170/LEG170 Legal Process or L100/LEG100 Law, Justice and Social Policy or LEG150 Australian Legal System.

Sentencing and Penology (LEG220)
Prerequisites: L170/LEG170 Legal Process or L100/LEG100 Law, Justice and Social Policy or LEG150 Australian Legal System or permission of the Unit Coordinator and Program Chair.

Statistical Data Analysis and Databases (MAS183)
## Biological Sciences (BSc)

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<tr>
<th>Year</th>
<th>Semester 1</th>
<th>Semester 2</th>
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<tbody>
<tr>
<td></td>
<td>Foundation Unit (see list below)</td>
<td>3pts</td>
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<tr>
<td></td>
<td><strong>BIO152 Cell Biology</strong></td>
<td>3pts</td>
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<tr>
<td></td>
<td><strong>PEC144 Chemical Principles</strong></td>
<td>3pts</td>
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<td></td>
<td>Part I Unit (General Elective)</td>
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<td>(* students who did not achieve a score of 60% for Year 12 Chemistry must enrol in PEC140 Introduction to Chemistry before taking these units)</td>
<td>12pts</td>
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<tr>
<td></td>
<td><strong>BIO103 Environmental Biology</strong></td>
<td>4pts</td>
</tr>
<tr>
<td></td>
<td>MAS183 Statistical Data Analysis and Databases</td>
<td>4pts</td>
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<tr>
<td></td>
<td>PEC144 Chemical Principles (unless completed in first year)</td>
<td>4pts</td>
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<td>** Part I Unit (General Elective) **</td>
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<tr>
<td>Year 2</td>
<td><strong>BIO270 Biochemistry</strong></td>
<td><strong>ENV268 Ecology</strong></td>
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<td></td>
<td><strong>Part I Unit (General Elective)</strong></td>
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<td>3pts</td>
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<td></td>
<td>12pts</td>
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<td>Year 3</td>
<td><strong>BIO261 Animal Diversity</strong></td>
<td><strong>BIO369 Evolutionary Biology</strong></td>
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<td>BIO263 Microbiology I</td>
<td><strong>Part II Unit (General Elective)</strong></td>
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<tr>
<td></td>
<td>BIO265 Plant Diversity</td>
<td><strong>Part II Unit (General Elective)</strong></td>
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<tr>
<td></td>
<td>4pts</td>
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<td></td>
<td>12pts</td>
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<tr>
<td>Year 4</td>
<td><strong>Part II Unit (General Elective)</strong></td>
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<td></td>
<td>4pts</td>
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<tr>
<td></td>
<td>12pts</td>
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</table>

**Foundation Unit:** Select one of the following:

- FDN115 Interactions of Society and Technology
- FDN150 Reinventing Australia
### Biotechnology (BSc)

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Semester 1</th>
<th>Semester 2</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Foundation Unit (see list below)</strong></td>
<td>3pts</td>
<td>3pts</td>
</tr>
<tr>
<td><strong>BIO152 Cell Biology</strong></td>
<td>3pts</td>
<td><strong>PEC144 Chemical Principles</strong></td>
</tr>
<tr>
<td><strong>Part I Unit (General Elective)</strong></td>
<td>3pts</td>
<td><strong>Part I Unit (General Elective)</strong></td>
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<tr>
<td>(<strong>students who did not achieve a score of 60% for Year 12 Chemistry must enrol in PEC140 Introduction to Chemistry before taking these units)</strong></td>
<td>12pts</td>
<td>12pts</td>
</tr>
<tr>
<td><strong>MAS183 Statistical Data Analysis and Databases</strong></td>
<td>3pts</td>
<td><strong>BIO270 Biochemistry I</strong></td>
</tr>
<tr>
<td><strong>BIO103 Environmental Biology (for students without a satisfactory background in Biology)</strong></td>
<td>3pts</td>
<td><strong>BIO252 Immunology, Vaccines and Cell Culture</strong></td>
</tr>
<tr>
<td><strong>OR</strong></td>
<td><strong>BMS203 Comparative and Human Microbiology (for students in a double major with Biomedical Science)</strong></td>
<td>4pts</td>
</tr>
<tr>
<td><strong>BMS101 Introduction to the Human Body (for students in a double major with Biomedical Science or Forensic Biology and Toxicology)</strong></td>
<td>3pts</td>
<td><strong>OR</strong></td>
</tr>
<tr>
<td><strong>Part I Unit (General Elective)</strong></td>
<td>12pts</td>
<td><strong>Part II Unit (General Elective)</strong></td>
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<tr>
<td><strong>Part I Unit (General Elective)</strong></td>
<td><strong>12pts</strong></td>
<td><strong>12pts</strong></td>
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<tr>
<td><strong>Year 2</strong></td>
<td><strong>Year 2</strong></td>
<td><strong>Year 2</strong></td>
</tr>
<tr>
<td><strong>BIO263 Microbiology (students in a double major with Biomedical Science must complete BMS203 in lieu of this unit)</strong></td>
<td>4pts</td>
<td><strong>BIO301 Industrial and Environmental Microbiology</strong></td>
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<td><strong>OR</strong></td>
<td><strong>Part II Unit (General Elective)</strong></td>
<td>4pts</td>
</tr>
<tr>
<td><strong>BIO212 Genetic Engineering</strong></td>
<td>4pts</td>
<td><strong>Part II Unit (General Elective)</strong></td>
</tr>
<tr>
<td><strong>BIO253 Plant Biotechnology and Proteomics</strong></td>
<td><strong>12pts</strong></td>
<td><strong>Part II Unit (General Elective)</strong></td>
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<td><strong>Year 3</strong></td>
<td><strong>Year 3</strong></td>
<td><strong>Year 3</strong></td>
</tr>
<tr>
<td><strong>BUS215 Business Feasibility and Management Concepts</strong></td>
<td>4pts</td>
<td><strong>BIO301 Industrial and Environmental Microbiology</strong></td>
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<td><strong>Part II Unit (General Elective)</strong></td>
<td>4pts</td>
<td><strong>Part II Unit (General Elective)</strong></td>
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<td><strong>Part II Unit (General Elective)</strong></td>
<td><strong>12pts</strong></td>
<td><strong>Part II Unit (General Elective)</strong></td>
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<td><strong>Foundation Unit:</strong> Select one of the following:</td>
<td><strong>Foundation Unit:</strong></td>
<td><strong>Foundation Unit:</strong></td>
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<tr>
<td>FDN115 Interactions of Society and Technology</td>
<td><strong>Foundation Unit:</strong></td>
<td><strong>Foundation Unit:</strong></td>
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<tr>
<td>FDN150 Reinventing Australia</td>
<td><strong>Foundation Unit:</strong></td>
<td><strong>Foundation Unit:</strong></td>
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</table>

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### Notes

- **Year 1:** Students must enrol in PEC140 Introduction to Chemistry before taking the PEC144 Chemical Principles unit.
- **Year 2:** For students in a double major with Biomedical Science, BMS203 Comparative and Human Microbiology must be completed instead of BMS101 Introduction to the Human Body.
- **Year 3:** For students in a double major with Biomedical Science, BMS203 Comparative and Human Microbiology must be completed instead of BIO263 Microbiology.
- **Year 4:** Students must enrol in PEC140 Introduction to Chemistry before taking the PEC144 Chemical Principles unit.

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Biotechnology (BSc) + Management (BCom)

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Semester 1</th>
<th>Semester 2</th>
</tr>
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<tbody>
<tr>
<td>Foundation Unit (see list below)</td>
<td>3pts</td>
<td>BIO152 Cell Biology</td>
</tr>
<tr>
<td>BUS160 Introduction to Accounting (or in Semester 2 if this suits study plan better)</td>
<td>3pts</td>
<td>PEC144 Chemical Principles</td>
</tr>
<tr>
<td>*PEC140 Introduction to Chemistry (if you do not have Year 12 Chemistry mark 60% or over)</td>
<td>3pts</td>
<td>BUS169 Principles of Marketing</td>
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<tr>
<td>*BIO103 Environmental Biology (for students without a satisfactory background in Biology)</td>
<td>3pts</td>
<td>MAS183 Statistics Data Analysis and Databases</td>
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<td>BUS165 Principles of Commercial Law</td>
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<tr>
<td>*BUS145 Principles of Management (or in Semester 2 if this suits study plan better)</td>
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<td>*Choose as appropriate for study plan</td>
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<tr>
<th>Year 2</th>
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<tbody>
<tr>
<td>BIO263 Microbiology I</td>
<td>4pts</td>
<td>BIO270 Biochemistry I</td>
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<tr>
<td>BIO212 Genetic Engineering</td>
<td>4pts</td>
<td>BIO252 Immunology, Vaccines and Cell Culture</td>
</tr>
<tr>
<td>BIO253 Plant Biotechnology and Proteomics</td>
<td>4pts</td>
<td>BUS240 Human Resource and Organisational Development</td>
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<td>12pts</td>
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<thead>
<tr>
<th>Year 3</th>
<th>Semester 1</th>
<th>Semester 2</th>
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<tbody>
<tr>
<td>BUS223 Organisational Theory and Behaviour</td>
<td>4pts</td>
<td>BIO301 Industrial Bioprocessing and Bioremediation</td>
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<tr>
<td>Part II Unit (General Elective)*</td>
<td>4pts</td>
<td>BUS228 Workplace Law</td>
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<tr>
<td>Part II Unit (Specified or General Elective)*</td>
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<td>Part II Unit (General Elective)</td>
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<td>12pts</td>
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<tr>
<th>Year 4</th>
<th>Semester 1</th>
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<tbody>
<tr>
<td>BUS320 Advanced HR Perspectives</td>
<td>4pts</td>
<td>BUS317 Strategic Management</td>
</tr>
<tr>
<td>Part II Unit (Specified or General Elective)*</td>
<td>4pts</td>
<td>Part II Unit (General Elective)</td>
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<tr>
<td></td>
<td>12pts</td>
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</table>

Foundation Unit: Select one of the following:
- FDN105 Structure, Thought and Reality
- FDN106 World Indigenous Knowledges
- FDN108 Life and the Universe
- FDN115 Interactions of Society and Technology
- FDN130 Age of Information
- FDN140 Evolution and Revolution
- FDN150 Reinventing Australia

# Part II Specified Elective: Select at least one from below

<table>
<thead>
<tr>
<th>Semester 1</th>
<th>Semester 2</th>
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<tbody>
<tr>
<td>BUS222 Employee Relations</td>
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<tr>
<td>BUS323 International Management</td>
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<tr>
<td>BUS378 Knowledge and Organisational Learning</td>
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## Biotechnology (BSc) + Marketing Management (BCom)

<table>
<thead>
<tr>
<th>Year</th>
<th>Semester 1</th>
<th>Semester 2</th>
</tr>
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<tbody>
<tr>
<td>Year 1</td>
<td><strong>Foundation Unit (See list below)</strong></td>
<td><strong>PEC144 Chemical Principles (3pts)</strong></td>
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<tr>
<td></td>
<td><strong>BIO152 Cell Biology</strong></td>
<td><strong>BiO152 Cell Biology</strong></td>
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<td><strong>MAS183 Statistical Data Analysis and Databases</strong></td>
<td><strong>MAS183 Statistical Data Analysis and Databases</strong></td>
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<td><strong>(</strong> students who did not achieve a score of 60% for Year 12 Chemistry</td>
<td><strong>must enrol in PEC140 Introduction to Chemistry before taking these units)</strong></td>
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<td>Year 2</td>
<td>BUS160 Introduction to Accounting (or in Semester 2 if this suits study plan</td>
<td>BIO270 Biochemistry I</td>
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<td>better)</td>
<td><strong>BIO252 Immunology, Vaccines and Cell Culture</strong></td>
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<td>BIO103 Environmental Biology</td>
<td>Part II Unit (Specified or General Elective)#</td>
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<td>BUS165 Principles of Commercial Law</td>
<td><strong>BUS273 Consumer Behaviour</strong></td>
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<td>BUS169 Principles of Marketing</td>
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<td>BIO263 Microbiology I</td>
<td>BIO301 Industrial Bioprocessing and Bioremediation</td>
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<td>BIO212 Genetic Engineering</td>
<td><strong>BUS273 Consumer Behaviour</strong></td>
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<td>BIO253 Plant Biotechnology and Proteomics</td>
<td>Part II Unit (Specified or General Elective)#</td>
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<td>BUS214 Marketing Development and Planning</td>
<td><strong>BUS335 Marketing Research and Analysis</strong></td>
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<tr>
<td>Year 5</td>
<td>BUS209 Marketing and Advertising</td>
<td>BUS324 Services Marketing</td>
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<td>Law</td>
<td><strong>BUS208 Quantitative Methods for Business and Economics</strong></td>
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**Foundation Unit:** Select one of the following:

- FDN115 Interactions of Society and Technology
- FDN150 Reinventing Australia

**# Part II Specified Elective:** Select at least two from below

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<td>BUS305 Digital Marketing</td>
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<td>BUS208 Quantitative Methods for Business and</td>
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<td>Part II Unit (Specified or General Elective)</td>
<td>Economics</td>
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# Biotechnology (BSc) + Entrepreneurship and Innovation (BCom)

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<td>BUS169 Principles of Marketing</td>
<td>BUS274 Entrepreneurship and Innovation</td>
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<td>BUS240 Human Resources and Organisational Development</td>
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<td>BUS145 Principles of Management (or Semester 2 if suits study plan better)</td>
<td>BIO252 Immunology, Vaccines and Cell Culture</td>
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<td>BUS140 Principles of Finance and Banking (or Semester 2 if suits study plan better)</td>
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<td>BUS214 Marketing Development and Planning</td>
<td>BUS331 Applied Business Innovation</td>
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<td>BUS215 Business Feasibility and Management Concepts</td>
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<td>Year 5</td>
<td>BUS209 Marketing and Advertising Law</td>
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**Foundation Unit:** Select one of the following:
- FDN115 Interactions of Society and Technology
- FDN150 Reinventing Australia
## Conservation and Wildlife Biology (BSc)

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<tr>
<td></td>
<td><strong>BIO152 Cell Biology</strong></td>
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<td>Part II unit (General Elective)</td>
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<td>(** students who did not achieve a score of 60% for Year 12 Chemistry must enrol in PEC140 Introduction to Chemistry before taking this unit)**</td>
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<td><strong>Year 2</strong></td>
<td>BIO103 Environmental Biology</td>
<td>BIO261 Animal Diversity</td>
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<td>ENV102 Introduction to Environmental Science</td>
<td>BIO265 Plant Diversity</td>
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<td>BIO261 Animal Diversity</td>
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<td>BIO265 Plant Diversity</td>
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### Foundation Unit:
Select one of the following:

- **FDN115 Interactions of Society and Technology**
- **FDN150 Reinventing Australia**

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40
### Molecular Biology (BSc)

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<td><strong>BIO152 Cell Biology</strong></td>
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<td><strong>PEC144 Chemical Principles</strong></td>
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<td>(** students who did not achieve a score of 60% for Year 12 Chemistry must enrol in PEC140 Introduction to Chemistry before taking these units)**</td>
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<td><strong>Year 2</strong></td>
<td>BIO103 Environmental Biology</td>
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<td>BIO371 Biochemistry II OR BIO364 Microbiology II (Semester 1)</td>
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<td>BIO302 Molecular Biology II</td>
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**Foundation Unit:** Select one of the following:

- FDN115 Interactions of Society and Technology
- FDN150 Reinventing Australia
# Bachelor of Forensic Biology and Toxicology (BForensics)

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<td><strong>PEC144 Chemical Principles</strong></td>
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<td>(** students who did not achieve a score of 60% for Year 12 Chemistry must enrol in PEC140 Introduction to Chemistry before taking these units)</td>
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<td>BIO103 Environmental Biology (is an acceptable alternative to BMS101 for student enrolled in double major in Molecular Biology)</td>
<td>BMS261 Human and Comparative Biochemistry (Semester 1) 4pts</td>
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<td>MAS183 Statistical Data Analysis and Databases</td>
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<td>BIO314 Forensic Toxicology 4pts</td>
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**Foundation Unit:** Select one of the following:

- FDN115 Interactions of Society and Technology
- FDN150 Reinventing Australia
Forensic Biology and Toxicology (BForensics) + Molecular Biology (BSc) + Biomedical Science (BSc)
Triple Major/Double Degree

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<th>Semester 2</th>
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<td><strong>PEC144 Chemical Principles</strong></td>
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<td><strong>BMS107 Principles of Vertebrate Physiology</strong></td>
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<td><strong>BIO103 Environmental Biology (is an acceptable alternative to BMS101 for student enrolled in double major in Molecular Biology)</strong></td>
<td><strong>Part II Unit (General Elective)</strong></td>
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<td><strong>MAS183 Statistical Data Analysis and Databases</strong></td>
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<td><strong>BIO215 Bodies of Evidence</strong></td>
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<td><strong>Part I (General Elective)</strong></td>
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<td><strong>BIO212 Genetic Engineering</strong></td>
<td><strong>PEC340 Instrumental Analysis</strong></td>
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<td><strong>PEC240 Analytical Chemistry</strong></td>
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<td><strong>Part II Unit (General Elective)</strong></td>
<td><strong>BIO314 Forensic Toxicology</strong></td>
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<td><strong>4pts</strong></td>
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<td><strong>12pts</strong></td>
<td><strong>BMS203 Human and Comparative Microbiology</strong></td>
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<td>Year 4</td>
<td><strong>BIO313 Forensic DNA Analysis</strong></td>
<td><strong>BIO252 Immunology, Vaccines and Cell Culture</strong></td>
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<td></td>
<td><strong>BMS264 Biomedical Physiology</strong></td>
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<tr>
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<td><strong>BIO316 Molecular Genetics</strong></td>
<td><strong>BMS265 Medical Immunology and Molecular Genetics</strong></td>
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<td></td>
<td><strong>4pts</strong></td>
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<td><strong>12pts</strong></td>
<td><strong>BIO372 Genetics</strong></td>
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<td><strong>BMS368 Advances in Medical Science</strong></td>
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<td>Year 5</td>
<td><strong>BIO364 Microbiology II</strong></td>
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<td><strong>OR</strong></td>
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<tr>
<td></td>
<td><strong>BIO371 Biochemistry II (In Semester 2)</strong></td>
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<td><strong>4pts</strong></td>
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<td></td>
<td><strong>BMS360 Mechanisms of Disease</strong></td>
<td><strong>12pts</strong></td>
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<td><strong>Part II Unit (General Elective)</strong></td>
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Forensic Biology and Toxicology (BForensics) + Molecular Biology (BSc) + Biomedical Science (BSc)
Triple Major/Double Degree (Continued)

**Foundation Unit:** Select one of the following:

- FDN115 Interactions of Society and Technology
- FDN150 Reinventing Australia

**Recommended Part I and Part 2 General Elective Units: *NB LEG units for Criminology Minor**

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<th>Semester 1</th>
<th>Semester 2</th>
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<tr>
<td>BMS107 Principles of Vertebrate Biology</td>
<td>ANS106 Animal &amp; Human Bioethics</td>
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<tr>
<td>LEG100 Law, Justice &amp; Social Policy</td>
<td>PEC143 Chemical Laboratory Techniques (or Semester 1)</td>
</tr>
<tr>
<td>POL192 Perspectives on Security and Terrorism</td>
<td>PSY141 Introduction to Psychological Science (or Semester 1)</td>
</tr>
<tr>
<td>LEG210 Criminal Behaviour</td>
<td>LEG209 Psychology and Law</td>
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<td>LEG205 Criminal Justice</td>
<td>LEG219 Criminal Law in Western Australia</td>
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<td>LEG220 Sentencing and Penology</td>
<td>LEG205 Criminology</td>
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</table>
APPENDIX D

Foundation Units

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/). 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.

**FDN115 Interactions of Society and Technology**
Murdoch: Semester 1-internal, Semester 1-external, Semester 2-internal, Semester 2-external
Peel: Semester 1-internal, Semester 2-internal,
Rockingham: Semester 1-internal, Semester 2-internal
Unit Coordinator – Martina Muller, m.muller@murdoch.edu.au
Tel: 9360 2955, Room: Science and Computing 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. FDN115 will provide students with an understanding of these important 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: Semester 1-internal, Semester 1-external, Semester 2-internal, Semester 2-external
Rockingham: Semester 1-internal
Unit Coordinator – Dr Brad Pettitt, b.pettit@murdoch.edu.au
Tel: 9360 6465, Room: Social Sciences Room 3.017

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 and citizenship. Our aim is to identify and understand some of the salient features of Australian society.
### APPENDIX E

**Personal Study Plan**

Unit Sets: ________________________________________________________________
________________________________________________________________________

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

Program Chair & Academic Contact Details

Biological Sciences Dr Howard Gill
h.gill@murdoch.edu.au  p: 08 9360 2282 BS 1010

Biotechnology Mrs Carolyn Jones
c.jones@murdoch.edu.au  p: 08 9360 2159 BS 3.015

Conservation and Wildlife Biology Dr Howard Gill
h.gill@murdoch.edu.au  p: 08 9360 2282 BS 1010

Molecular Biology Assoc Prof Bob Mead
r.mead@murdoch.edu.au  p: 08 9360 2736

Forensic Biology and Toxicology Assoc Prof Bob Mead
r.mead@murdoch.edu.au  p: 08 9360 2736

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 G

Enrolment Enquiries

Enrolment advice will be provided at the Course Advice Sessions and 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
   p: 08 9360 7294
   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, sample enrolments, including unit selection for common double majors, Fees, Orientation and Services and Facilities.
# APPENDIX H

## 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)</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>
</tr>
<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>Pamela Martin-Lynch</td>
<td><a href="mailto:p.martin-lynch@murdoch.edu.au">p.martin-lynch@murdoch.edu.au</a></td>
<td>9360 2519</td>
<td>Library 3.001B</td>
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## Handy Websites

<table>
<thead>
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<td>Dates and Deadlines</td>
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<td>Faculty Student Administration</td>
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<td>Guild of Students</td>
<td><a href="http://guild.murdoch.edu.au">http://guild.murdoch.edu.au</a></td>
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<td><a href="http://www.international.murdoch.edu.au">http://www.international.murdoch.edu.au</a></td>
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<td>MyInfo (online enrolment)</td>
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