Bachelor of Applied Science / Bachelor of Laws (IX72)

Year offered: 2011
Admissions: Yes
CRICOS code: 066294B
Course duration (full-time): 5.5 years
Domestic Fees (indicative): 2011: CSP $3,631 (indicative) per semester
International Fees (indicative): 2011: $11,500 (indicative) per semester
Domestic Entry: February
International Entry: February
QTAC code: 419712
Past rank cut-off: 92
Past OP cut-off: 5
OP Guarantee: Yes
Assumed knowledge: English (4, SA) and Maths B (4, SA)
Preparatory studies: For information on acquiring assumed knowledge visit http://www.qut.edu.au/assumed-knowledge
Total credit points: 528
Standard credit points per full-time semester: 48
Course coordinator: Dr Perry Hartfield (Science and Technology); Dr Bill Dixon (Law)
Discipline coordinator: Dr Perry Hartfield (Biochemistry Major); Dr Marion Bateson (Biotechnology Major); Dr John McMurtrie (Chemistry Major); Dr Ian Williamson (Ecology Major); Dr Robin Thwaites (Environmental Science Major); Dr Emad Kiriakous (Forensic Science Major); Dr Gary Huftile (Geoscience Major); Dr Christine Knox (Microbiology Major); Dr Greg Michael (Physics Major)
Campus: Gardens Point

Professional Recognition
Graduates will satisfy the requirements for membership in the relevant professional body for their science major. See Studyfinder for details on the Bachelor of Applied Science majors.

At the end of your Law degree you will have completed the necessary units for admission to legal practice in Australia. To become a practising lawyer you will need to complete further practical legal training (e.g. Graduate Diploma in Legal Practice) and then apply for admission.

Course Design
The course is designed to cover all major areas of the law as well as allowing students to choose any of the following science majors that are offered in the Bachelor of Applied Science (SC01) course: biochemistry, biotechnology, chemistry, ecology, environmental science, forensic science, geoscience, microbiology and physics.

To complete the double degree in a shorter period of time, the co-major will be taken from the law program therefore it is not possible for students to choose any of the co-majors listed under the Bachelor of Applied Science course.

Limits on grades of 3
A new policy concerning grades of 3 came into effect from 1 January 2009 (QUT MOPP C/5.2). With effect from this date grades of 3 are no longer considered a conceded or low pass but are classified as a fail grade. Any grades of 3 awarded prior to 1 January 2009 retain the conceded pass status and will be counted for graduation purposes up to the maximum number of grades of 3 permitted for your course. Grades of 3 incurred in units that commence after 1 January 2009 will not count towards your degree. Further information is available on the Student Services website

Further Information
For further information about this course, please contact the following:

Science Coordinator
Dr Perry Hartfield
Phone: +61 7 3138 2984
Email: p.hartfield@qut.edu.au

Law Coordinator
Dr Bill Dixon
Phone: +61 7 3138 2707

Discipline Coordinators
Biochemistry
Dr Perry Hartfield
Phone: +61 7 3138 2984
Email: p.hartfield@qut.edu.au

Biotechnology
Dr Marion Bateson
Phone: +61 7 3138 1269
Email: m.bateson@qut.edu.au

Chemistry
Dr John McMurtrie
Phone: +61 7 3138 1220
Email: j.mcmurtrie@qut.edu.au

Ecology
Dr Ian Williamson
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Email: i.williamson@qut.edu.au

Environmental Science

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Dr Robin Thwaites  
Phone: +61 7 3138 2400  
Email: r.thwaites@qut.edu.au  

**Forensic Science**  
Dr Emad Kiriakous  
Phone: +61 7 3138 2501  
Email: e.kiriakous@qut.edu.au  

**Geoscience**  
Dr Gary Huftile  
Phone: +61 7 3138 4470  
Email: g.huftile@qut.edu.au  

**Microbiology**  
Dr Christine Knox  
Phone: +61 7 3138 2301  
Email: c.knox@qut.edu.au  

**Physics**  
Dr Greg Michael  
Phone: +61 7 3138 1584  
Email: g.michael@qut.edu.au  

**Deferment**  
Domestic students can defer their offer in this course for one year. In exceptional circumstances up to 12 months of additional deferment may be granted.  

Find out more on deferment.  

**Law School Electives Information**  
Students who are enrolled in LW34 (straight law undergraduate entry) are required to undertake two contextual electives in the first year of their degree (one in each semester). Contextual electives may also be undertaken by any student as an ordinary elective within their degree. The contextual electives are:  
- LWB142 Law Society and Justice  
- LWB144 Law and Global Perspectives  
- LWB149 Indigenous Legal Issues  
- LWB150 Lawyering and Dispute Resolution.  

Students who are enrolled in any of the law double degrees commence their law electives in the second semester of their second year.  

Students who are enrolled in LW35 (Graduate Entry) commence their law electives in first semester of their second year.  

Law students other than Graduate Entry students can undertake 4 non-law units as electives within their law degree. Students may be particularly interested in elective options within the School of Justice which relate to human rights and criminal justice.  

**Graduate Destination Streams**  
The Faculty of Law has identified graduate destination streams for students undertaking a law or law double degree. This means that, as students learn more throughout their degree, they can choose their elective units in the areas of law in which they become interested. Students are not restricted to choose electives from a single stream; the streams are only to provide guidance to students in making their elective choices.  
- Legal Practice  
- General Legal Practice (work as a lawyer across a wide range of different legal areas)  
- Specialist Legal Practice (work as a lawyer specialising in a particular area of the law, such as property law, family law or corporate law)  
- Advocacy and Dispute Resolution (acting for clients in court or resolving disputes through negotiation and mediation processes)  
- Public Sector (work as a lawyer in a government department)  
- Private Enterprise (for those students not wanting to practise as a lawyer, but perhaps work within business management, human resources, information technology etc)  

As students progress towards the end of their degrees there are more opportunities to participate in subjects where they engage in ‘real world learning’, for example, working within law firms and government departments in placement electives.

**Course structure - Law**

<table>
<thead>
<tr>
<th>Year 1, Semester 1</th>
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<tbody>
<tr>
<td>LWB145</td>
<td>Legal Foundations A</td>
</tr>
<tr>
<td>LWB147</td>
<td>Torts A</td>
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<tbody>
<tr>
<td>LWB146</td>
<td>Legal Foundations B</td>
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<td>LWB148</td>
<td>Torts B</td>
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<tbody>
<tr>
<td>LWB136</td>
<td>Contracts A</td>
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<tr>
<td>LWB238</td>
<td>Fundamentals of Criminal Law</td>
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<tbody>
<tr>
<td>LWB137</td>
<td>Contracts B</td>
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<td>LWB239</td>
<td>Criminal Responsibility</td>
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<thead>
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</table>
LWB240 Principles of Equity
LWB243 Property Law A

Year 3, Semester 2
LWB241 Trusts
LWB244 Property Law B

Year 4, Semester 1
LWB242 Constitutional Law
LWB432 Evidence

Year 4, Semester 2
LWB334 Corporate Law
Law Elective

Year 5, Semester 1
LWB335 Administrative Law
LWB431 Civil Procedure
Law Elective
Law Elective

Year 5, Semester 2
LWB433 Professional Responsibility
Law Elective
Law Elective
Law Elective

Year 6, Semester 1
Law Elective
Law Elective
Law Elective
Law Elective

Law Electives
Further information regarding Law Electives can be found at:

Transitional notes for students who have transferred from IF39 to IX72:
* LWB142 and LWB144 are now law contextual elective units.
* LWB145 Legal Foundations A was LWB141 Legal Institutions and Method.
* LWB146 Legal Foundations B was LWB143 Legal Research and Writing (prerequisite LWB141).

LWB147 Torts A was LWB138 Fundamentals of Torts.
* LWB148 Torts B was LWB139 Select Issues in Torts (prerequisite LWB138).
* LWB242 Constitutional Law was LWB231 Introduction to Public Law and LWB235 Australian Federal Constitutional Law.
* LWB243 Property Law was LWB236 Real Property A (prerequisite LWB141 & LWB240).
* LWB244 Property Law B was LWB237 Real Property B (prerequisite LWB236).
* LWB333 Theories of Law is now an elective unit.
* LWB335 Administrative Law was LWB331 Administrative is now (prerequisite LWB231).
* LWB434 Advanced Research and Legal Reasoning is now LWB435 Legal Research in Practice (prerequisite LWB143/LWB145) and it is now an elective unit.
* Due to the restructure of the law course and the changes to the units required for admission purposes, the total number of elective units that students will be permitted to undertake will vary depending on the year of commencement and the number of units completed to date.

If you have not followed the standard course structure up to this point in time or are uncertain as to the correct number of electives available please contact the Law School Enquiries on (07)3138 2707 or email: law_enquiries@qut.edu.au.

Course structure - Major in Biochemistry

Year 1, Semester 1
SCB112 Cellular Basis of Life
Either
MAB101 Statistical Data Analysis 1
Or
MAB105 Preparatory Mathematics

Year 1, Semester 2 (Life Sciences Pre-Major Strand)
SCB120 Plant and Animal Physiology
SCB122 Cell and Molecular Biology

Year 2, Semester 1
SCB110 Science Concepts and Global Systems
SCB111 Chemistry 1

Year 2, Semester 2
SCB123 Physical Science Applications
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>SCB121</td>
<td>Chemistry 2</td>
</tr>
</tbody>
</table>

**Year 3, Semester 1**

- LQB381  | Biochemistry: Structure and Function            |
- LQB383  | Molecular and Cellular Regulation               |

**Year 3, Semester 2**

- LQB481  | Biochemical Pathways and Metabolism             |
- LQB483  | Molecular Biology Techniques                    |

**Year 4, Semester 1**

- LQB581  | Functional Biochemistry                         |
- LQB582  | Biomedical Research Technologies                |

**Year 4, Semester 2**

- LQB583  | Select TWO units from: Genetic Research Technology |
- LQB584  | Medical Cell Biology                             |
- LQB585  | Plant Genetic Manipulation                       |

**Year 4, Semester 2**

- LQB682  | Protein Biochemistry and Bioengineering         |
- LQB684  | Medical Biotechnology                            |
- LQB685  | Plant Microbe Interactions                       |

**Course structure - Major in Biotechnology**

**Year 1, Semester 1**

- SCB112  | Cellular Basis of Life                         |
- Either   |
- MAB101  | Statistical Data Analysis 1                    |
- Or       |
- MAB105  | Preparatory Mathematics                        |

**Year 1, Semester 2 (Life Sciences Pre-Major Strand)**

- SCB120  | Plant and Animal Physiology                    |
- SCB122  | Cell and Molecular Biology                     |

**Year 2, Semester 1**

- SCB110  | Science Concepts and Global Systems            |
- SCB111  | Chemistry 1                                    |

**Year 2, Semester 2**

- SCB123  | Physical Science Applications                  |
- SCB121  | Chemistry 2                                    |

**Year 3, Semester 1**

- LQB381  | Biochemistry: Structure and Function            |
- LQB383  | Molecular and Cellular Regulation               |

**Year 3, Semester 2**

- LQB483  | Molecular Biology Techniques                    |
- LQB484  | Introduction to Genomics and Bioinformatics     |

**Year 4, Semester 1**

- Select TWO units from: Genetic Research Technology |
- Medical Cell Biology                             |
- Plant Genetic Manipulation                       |

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## Year 4, Semester 2

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>NQB622</td>
<td>Conservation Biology</td>
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<tr>
<td>NQB623</td>
<td>Ecological Systems</td>
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### Course structure - Major in Environmental Science

#### Year 1, Semester 1

<table>
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<tr>
<td>SCB112</td>
<td>Cellular Basis of Life</td>
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<tr>
<td></td>
<td>Either</td>
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<tr>
<td>MAB101</td>
<td>Statistical Data Analysis 1</td>
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<td></td>
<td>Or</td>
</tr>
<tr>
<td>MAB105</td>
<td>Preparatory Mathematics</td>
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#### Year 1, Semester 2 (Ecology and Environmental Science Pre-Major Strand)

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<td>NQB201</td>
<td>Planet Earth</td>
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<tr>
<td>SCB120</td>
<td>Plant and Animal Physiology</td>
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## Year 2, Semester 1

<table>
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<th>Course Title</th>
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<td>SCB110</td>
<td>Science Concepts and Global Systems</td>
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<tr>
<td>SCB111</td>
<td>Chemistry 1</td>
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## Year 2, Semester 2

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<tr>
<td>SCB122</td>
<td>Cell and Molecular Biology</td>
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<tr>
<td></td>
<td>Or</td>
</tr>
<tr>
<td>SCB123</td>
<td>Physical Science Applications</td>
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<tr>
<td></td>
<td>Plus</td>
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<tr>
<td>NQB202</td>
<td>History of Life on Earth</td>
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## Year 3, Semester 1

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<td>NQB321</td>
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<tr>
<td>NQB322</td>
<td>Invertebrate Biology</td>
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<td>Or</td>
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<tr>
<td>NQB323</td>
<td>Plant Biology</td>
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## Year 3, Semester 2

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<tbody>
<tr>
<td>NQB421</td>
<td>Experimental Design</td>
</tr>
<tr>
<td>NQB422</td>
<td>Genetics and Evolution</td>
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## Year 4, Semester 1

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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>NQB521</td>
<td>Population Genetics and Molecular Ecology</td>
</tr>
<tr>
<td>NQB523</td>
<td>Population Management</td>
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</table>
### Course structure - Major In Geoscience

**Year 1, Semester 1**
- SCB110 Science Concepts and Global Systems  
  - Either  
  - MAB101 Statistical Data Analysis 1  
  - Or  
  - MAB105 Preparatory Mathematics

**Year 1, Semester 2 (Geoscience Pre-Major Strand)**
- NQB201 Planet Earth  
- SCB222 Exploration of the Universe

**Year 2, Semester 1**
- SCB120 Plant and Animal Physiology  
- SCB122 Cell and Molecular Biology

**Year 2, Semester 2**
- SCB123 Physical Science Applications  
- SCB111 Chemistry 1

**Year 3, Semester 1**
- SCB110 Science Concepts and Global Systems  
  - Either  
  - MAB101 Statistical Data Analysis 1  
  - Or  
  - MAB105 Preparatory Mathematics

**Year 2, Semester 2**
- SCB123 Physical Science Applications  
- SCB111 Chemistry 1

**Year 3, Semester 1**
- SCB120 Plant and Animal Physiology  
- SCB122 Cell and Molecular Biology

**Year 3, Semester 2**
- SCB123 Physical Science Applications  
- SCB111 Chemistry 1

**Year 4, Semester 1**
- SCB120 Plant and Animal Physiology  
- SCB122 Cell and Molecular Biology

**Year 4, Semester 2**
- SCB123 Physical Science Applications  
- SCB111 Chemistry 1

### Course structure - Major In Microbiology

**Year 1, Semester 1**
- SCB110 Science Concepts and Global Systems  
  - Either  
  - MAB101 Statistical Data Analysis 1  
  - Or  
  - MAB105 Preparatory Mathematics

**Year 1, Semester 2 (Life Sciences Pre-Major Strand)**
- SCB120 Plant and Animal Physiology  
- SCB122 Cell and Molecular Biology

**Year 2, Semester 1**
- SCB110 Science Concepts and Global Systems  
- SCB111 Chemistry 1

**Year 2, Semester 2**
- SCB123 Physical Science Applications  
- SCB111 Chemistry 1

**Year 3, Semester 1**
- SCB120 Plant and Animal Physiology  
- SCB122 Cell and Molecular Biology
<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>LQB381</td>
<td>Biochemistry: Structure and Function</td>
</tr>
<tr>
<td>LQB386</td>
<td>Microbial Structure and Function</td>
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**Year 3, Semester 2**

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<tbody>
<tr>
<td>LQB483</td>
<td>Molecular Biology Techniques</td>
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<tr>
<td>LQB486</td>
<td>Clinical Microbiology 1</td>
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**Year 4, Semester 1**

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<tbody>
<tr>
<td>LQB586</td>
<td>Clinical Microbiology 2</td>
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<tr>
<td>LQB587</td>
<td>Applied Microbiology 1: Water, Air and Soil</td>
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**Year 4, Semester 2**

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<tr>
<td>LQB686</td>
<td>Microbial Technology and Immunology</td>
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<tr>
<td>LQB687</td>
<td>Applied Microbiology 2: Food and Quality Assurance</td>
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**Course structure - Major in Physics**

**Year 1, Semester 1**

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<th>Course Title</th>
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<td>Science Concepts and Global Systems</td>
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<td></td>
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<tr>
<td>MAB120</td>
<td>Algebra and Calculus</td>
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<tr>
<td>MAB121</td>
<td>Calculus and Differential Equations</td>
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</table>

Students who have completed only Maths B are required to take MAB120. Students who have completed both Maths B and Maths C should take MAB121.

**Year 1, Semester 2 (Physics Pre-Major Strand)**

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<tbody>
<tr>
<td>MAB122</td>
<td>Algebra and Analytic Geometry</td>
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<tr>
<td>PQB250</td>
<td>Mechanics and Electromagnetism</td>
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**Year 2, Semester 1**

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<th>Course Title</th>
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<tbody>
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<td>Cellular Basis of Life</td>
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<tr>
<td>SCB111</td>
<td>Chemistry 1</td>
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**Year 2, Semester 2**

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<th>Course Title</th>
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<tr>
<td>MAB121</td>
<td>Calculus and Differential Equations</td>
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<td></td>
<td>Or</td>
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<tr>
<td>MAB220</td>
<td>Computational Mathematics 1</td>
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<tr>
<td>PQB251</td>
<td>Waves and Optics</td>
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**Year 3, Semester 1**

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<td>PQB350</td>
<td>Thermodynamics of Solids and Gases</td>
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**Year 3, Semester 2**

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<td>Energy, Fields and Radiation</td>
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<td>PQB451</td>
<td>Electronics and Instrumentation</td>
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**Year 4, Semester 1**

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<td>Quantum and Condensed Matter Physics</td>
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<td>PQB551</td>
<td>Physical Analytical Techniques</td>
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**Year 4, Semester 2**

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<td>PQB650</td>
<td>Advanced Theoretical Physics</td>
</tr>
<tr>
<td>PQB651</td>
<td>Experimental Physics</td>
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**Bachelor of Laws Elective List - Odd Years Offerings**

**Important Information**

These offerings are current at time of publication but are subject to change.

The elective interest groups are provided to assist you in choosing electives that align with your career interests. You are not limited to selection from any one group, you can select from a range of elective interest groups.

The offering of elective units is subject to sufficient student enrolment numbers and staff availability.

As a guide, when a unit is offered during the day in one semester, it will be offered during the evening the next time it is offered and vice versa (subject to staff and room availability and offering a spread of units across day and night in each semester).

Before enrolling in an elective unit, you must ensure you have met any pre- or co-requisite requirements. You can check this by referring to the unit outlines on QUT Virtual at https://qutvirtual.qut.edu.au/portal/pls/portal/unout_search_p.show.

All units on this list are offered in internal and external mode unless noted otherwise.

**Semester 1 units:**

**Contextual +**

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<tr>
<th>Course Code</th>
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<tbody>
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**Property and Environmental**

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**Commercial and Consumer**

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<td>Insolvency Law</td>
</tr>
<tr>
<td>LWB364</td>
<td>Introduction to Taxation Law</td>
</tr>
<tr>
<td>LWB366</td>
<td>Law of Commercial Entities</td>
</tr>
<tr>
<td>Intellectual Property and Technology</td>
<td>LWB486</td>
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**Semester 2 units:**

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<th>LWB144</th>
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<td>LWB150</td>
<td>Lawyering and Dispute Resolution</td>
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<td>LWB149</td>
<td>Indigenous Legal Issues</td>
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<td>Native Title Law and Practice</td>
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<td>LWB423</td>
<td>Intellectual Property and Technology Law Clinic</td>
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<td>LWB308</td>
<td>Australian Employment Law</td>
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<td>LWB483</td>
<td>Medico-Legal Issues</td>
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<td>LWB496</td>
<td>Australian and Comparative Human Rights Law</td>
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<td>LWB144</td>
<td>Laws and Global Perspectives</td>
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<td>LWB406</td>
<td>Fundamentals of Public International Law</td>
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<td>LWB407</td>
<td>Private International Law</td>
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<td>Legal Skills</td>
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<td>LWB150</td>
<td>Lawyering and Dispute Resolution</td>
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<td>LWB356</td>
<td>Advocacy</td>
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**LWB413 Queensland Parliamentary Internship Program**

This unit is for final year students only. There is a limited number of internships available and therefore enrolment in this unit is subject to approval by the unit co-ordinator. Interested students should contact John Pyke (j.pyke@qut.edu.au). NOTE: Due to complications in the Parliamentary calendar there may be no internships available in 2011. Please contact John Pyke for further information.

Internal mode only.

**LWB418 Competition Moots 1**

**LWB419 Competition Moots 2**

Entry to LWB418 and LWB419 is subject to being selected into a team to compete in one of the external mooting competitions that the QUT Law School will enter.

Internal mode only.

**Notes:**

+ The units LWB142 Law Society and Justice, LWB149 Indigenous Legal Issues, LWB144 Laws and Global Perspectives and LWB150 Dispute Resolution appear twice as they are contextual elective choices in first year. If you are completing a straight law degree (LW34), you are also elective choices within the various elective interest groups that can be undertaken in any year of your degree.

*These starred units are alternating units and will generally only be offered in odd years. Alternating units which are generally offered in even years include: LWB333 Theories of Law; LWB459 Commercial & Consumer Law; LWB359 Advanced Taxation Law; LWB463 Immigration & Refugee Law; LWB480 Media Law and LWB494 Principles of Sentencing. The offering of these units will be subject to student demand and staff availability.


Restricted Entry Units have quota limits imposed. Although students are able to enrol in these units on-line no places are guaranteed until after the applications are closed.

External students are not excluded from undertaking these units, provided that they are able to meet all the attendance requirements.

**Bachelor of Laws Elective List - Even Years Offerings**

**Research and Theory**

**LWB497 Advanced Research Project**

Application forms and guidelines can be found at http://www.law.qut.edu.au/study/forms.jsp and must be lodged at the Level 4 Reception C Block QUT Gardens Point. Forms must be submitted no later than 2 weeks prior to the commencement of semester.

- Internal mode only.

**Work Integrated Learning**

**LWB421 Learning in Professional Practice**

(Prior to enrolment in LWB421 students must have organised a legal professional placement as set out in the unit outline).

**LWB422 Virtual Law Placement**

Any student wishing to undertake this unit must register their name with the Law School by emailing law_enquiries@qut.edu.au.

**LWB456 Legal Clinic (Organised Program)**

Any student wishing to undertake this unit must register their name with the Law School by emailing law_enquiries@qut.edu.au.

Internal mode only.

**LWB423 Intellectual Property and Technology Law Clinic**

Important Information

These offerings are current at time of publication but are subject to change.

The elective interest groups are provided to assist you in choosing electives that align with your career interests. You are not limited to selection from any one group, you can select from a range of elective interest groups.

The offering of elective units is subject to sufficient student enrolment numbers and staff availability.

As a guide, when a unit is offered during the day in one semester, it will be offered during the evening the next time it is offered and vice versa (subject to staff and room availability and offering a spread of units across day and night in each semester).

Before enrolling in an elective unit, you must ensure you have met any pre- or co-requisite requirements. You can check this by referring
to the unit outlines on QUT Virtual at https://qutvirtual.qut.edu.au/portal/pls/portal/un out_search_p.show.

All units on this list are offered in internal and external mode unless noted otherwise.

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<th>Semester 1 units:</th>
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<td>LWB142 Law, Society and Justice</td>
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<td>LWB150 Lawyering and Dispute Resolution</td>
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<td>LWB485 Environmental Law</td>
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<td>LWB307 Insolvency Law</td>
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<td>LWB364 Introduction to Taxation Law</td>
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<td>LWB366 Law of Commercial Entities</td>
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<td>LWB459 Commercial and Consumer Law</td>
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<td><strong>Intellectual Property and Technology</strong></td>
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<td>LWB486 Intellectual Property Law</td>
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<td>LWB499 Creative Commons Clinic</td>
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<td>LWB313 Discrimination &amp; Equal Opportunity Law</td>
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<td>LWB418 Competition Moots 1</td>
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<td>LWB419 Competition Moots 2</td>
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<td>Internal mode only. Closing date for applications: Enrolments will be called for at a later date via e-mail.</td>
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<td>LWB498 Dispute Resolution and Non-adversarial Practice</td>
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<td>LWBXXX Climate Change Law</td>
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<td>LWB359 Advanced Taxation Law</td>
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<td>LWB363 Insurance Law</td>
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<td>LWBXXX Consumer Financial Services Law and Regulation</td>
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<td><strong>Intellectual Property and Technology</strong></td>
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<td>LWB482 Internet Law</td>
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<td>LWB423 Intellectual Property and Technology Law</td>
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Clinic
Internal mode only.
LWB480 Media Law
* see notes below

Human Rights
LWB149 Indigenous Legal Issues
LWB302 Family Law
LWB494 Principles of Sentencing
* see notes below
LWB463 Immigration and Refugee Law
* see notes below

International
LWB144 Laws and Global Perspectives
LWB406 Fundamentals of Public International Law

Legal Skills
LWB356 Advocacy
Any student wishing to undertake this unit must register their name with the Law School by emailing law_enquiries@qut.edu.au. The number of student enrolments in this unit may be capped. External students are not excluded from undertaking this unit, provided that they are able to meet all attendance requirements. Final year students and students who have not had the opportunity to undertake other skills or work integrated learning units will be given preference.

Block mode only. Closing Date for Applications: 5pm Thursday 19 April 2011

LWB413 Queensland Parliamentary Internship Program
This unit is for final year students only. There is a limited number of internships available and therefore enrolment in this unit is subject to approval by the unit co-ordinator. Interested students should contact John Pyke (j.pyke@qut.edu.au). NOTE: Due to complications in the Parliamentary calendar there may be no internships available in 2011. Please contact John Pyke for further information.

Internal mode only. Closing Date for Applications: End of May 2012

LWB418 Competition Moots 1
Entry is subject to being selected into a team to compete in one of the external mooting competitions that the QUT Law School will enter.

Internal mode only. Closing date for applications: Enrolments will be called for at a later date via e-mail.

Research and Theory
LWB497 Advanced Research Project
Application forms and guidelines can be found at http://www.law.qut.edu.au/study/forms.jsp and must be lodged at the Level 4 Reception C Block QUT Gardens Point. Forms must be submitted no later than 2 weeks prior to the commencement of semester.

Closing Date for Applications: Forms must be submitted no later than 2 weeks prior to the commencement of semester.

Work Integrated Learning
LWB421 Learning in Professional Practice
(Prior to enrolment in LWB421 students must have organised a legal professional placement as set out in the unit outline).

LWB422 Virtual Law Placement
Any student wishing to undertake this unit must register their name with the Law School by emailing law_enquiries@qut.edu.au.

Closing Date for Applications: 5pm Thursday 19 April 2011

LWB456 Legal Clinic (Organised Program)
Any student wishing to undertake this unit must register their name with the Law School by emailing law_enquiries@qut.edu.au.

Internal mode only. Closing Date for Applications: 5pm Thursday 19 April 2011

LWB423 Intellectual Property and Technology Law Clinic
Places in this unit are limited. Any student wishing to undertake this unit must register their name with the Law School by emailing law_enquiries@qut.edu.au. A particular selection process will then follow.

Internal mode only. Closing Date for Applications: 5pm Thursday 19 April 2011

Notes:
+ The units LWB142 Law Society and Justice, LWB149 Indigenous Legal Issues, LWB144 Laws and Global Perspectives and LWB150 Dispute Resolution appear twice as they are contextual elective choices in first year, if you are completing a straight law degree (LW34). They are also elective choices within the various elective interest groups that can be undertaken in any year of your degree.

*these starred units are alternating units and will generally only be offered in even years. Alternating units which are generally offered in even years include: LWB489 Native Title and Cultural Heritage Law; LWB410 Comparative Law; LWB367 Law of Corporate Governance;
LWB308 Australian Employment Law; LWB483 Medico-Legal Issues and LWB496 Human Rights Law. The offering of these units will be subject to student demand and staff availability.


Restricted Entry Units have quota limits imposed. Although students are able to enrol in these units on-line no places are guaranteed until after the applications are closed.

External students are not excluded from undertaking these units, provided that they are able to meet all the attendance requirements.

Bachelor of Laws Summer Units

Important Information

These offerings are current at time of publication but are subject to change.

The offering of elective units is subject to sufficient student enrolment numbers and staff availability.

Undergraduate Core Units

LWB239 Criminal Responsibility
LWB241 Trusts
LWB244 Property Law B
LWB334 Corporate Law
LWB335 Administrative Law
LWB431 Civil Procedure
LWB432 Evidence
LWB433 Professional Responsibility

Undergraduate Elective Units

LWB302 Family Law
LWB307 Insolvency Law
LWB308 Australian Employment Law
LWB309 Succession
LWB312 Real Estate Transactions
LWB313 Discrimination & Equal Opportunity Law
LWB356 Advocacy
LWB359 Advanced Taxation Law
LWB361 Drafting
LWB363 Insurance Law
LWB364 Introduction to Taxation Law
LWB407 Private International Law
LWB410 Competition Law
LWB418 Competition Moots 1
LWB435 Legal Research in Practice
LWB454 Banking and Finance Law
LWB459 Commercial and Consumer Law
LWB460 Sports Law
LWB463 Immigration and Refugee Law
LWB480 Media Law
LWB482 Internet Law
LWB483 Medico-Legal Issues
LWB485 Environmental Law
LWB486 Intellectual Property Law
LWB489 Native Title Law and Practice
LWB494 Principles of Sentencing
LWB496 Australian and Comparative Human Rights Law
LWB498 Dispute Resolution and Non-adversarial Practice
LWB499 Creative Commons Clinic
LWBXXX Consumer and Financial Services Law
LWBXXX Climate Change Law

Public Sector

Electives that may be offered by the Law School that are particularly relevant to students considering a future career in the public sector include:

LWB333 Theories of Law
LWB406 Fundamentals of Public International Law
LWB413 Queensland Parliamentary Internship Program
LWB420 Internship
LWB463 Immigration and Refugee Law
Queensland University of Technology
Brisbane Australia

CRICOS No. 00213J ABN 83 791 724 622

LWB485 Environmental Law
LWB486 Intellectual Property Law
LWB494 Principles of Sentencing
LWB496 Australian and Comparative Human Rights Law
LWB499 Creative Commons Clinic

Private Enterprise

Electives that may be offered by the Law School that are particularly relevant to students considering a future career in the private sector include:

LWB308 Australian Employment Law
LWB366 Law of Commercial Entities
LWB367 Law of Corporate Governance
LWB410 Competition Law
LWB421 Learning in Professional Practice

Placement Electives

Electives which involve students undertaking real world professional experience include:

LWB413 Queensland Parliamentary Internship Program
LWB420 Internship
LWB421 Learning in Professional Practice
LWB422 Virtual Law Placement
LWB423 Intellectual Property and Technology Law Clinic

Potential Careers:


UNIT SYNOPSES

JSB979 FORENSIC SCIENTIFIC EVIDENCE

The word 'forensic' once meant anything relating to a law court. However today the term 'forensic science' refers to a whole new subject: it means using science to solve legal issues. As science, and the many sub-disciplines of science, are appearing in court with ever-increasing rapidity, there is a clear need for scientists to understand the foundations to the law, the ways in which law reasons, the adversarial process, and the basics to the key area of evidence law. The aim of this unit is first to provide you with an understanding of evidence law, with a particular emphasis upon the foundations to reception of scientific evidence, and the ways in which expert scientific witnesses are received in our courts. The unit aims to clarify the links between science and law, as well as to articulate the differences between these two increasingly inter-twined disciplines.

Equivalents: JSB937, JSB444 Credit points: 12
Contact hours: 3 Campus: Gardens Point and External
Teaching period: 2011 SEM-2

LQB381 BIOCHEMISTRY: STRUCTURE AND FUNCTION

This unit extends basic organic chemistry theory to the level of the biological macromolecules. A clear understanding of the structure and function of these molecules is essential to a student's understanding of the metabolism of living cells. Hence this biomolecular unit is a fundamental prerequisite for all advanced units in the various disciplines in the field of life sciences.

Prerequisites: (SCB121 and SCB122) or (SCB111 and SCB112) or SCB113 Antirequisites: LSB275 and LSB325 and LSB308 Credit points: 12 Contact hours: 4 per week Campus: Gardens Point Teaching period: 2011 SEM-1

LQB383 MOLECULAR AND CELLULAR REGULATION

Molecular and Cellular Regulation is a second year unit and is a continuation and expansion of topics introduced in SCB112 Cellular Basis of Life and SCB122 Cell & Molecular Biology. Molecular and Cellular Regulation strengthens the focus on the molecular and genetic aspects of cellular processes and the consequences to the organism of failure of these basic processes. Topics taught relate to gene structure and regulation in prokaryotes and eukaryotes and the role of gene expression in the development of complex organisms. Related concepts such as cell signalling, communication, proliferation and survival are further developed in this unit.

Prerequisites: SCB122 or LSB238 Antirequisites: LSB468 and LSB338 Credit points: 12 Contact hours: 4 per week Campus: Gardens Point Teaching period: 2011 SEM-1

LQB386 MICROBIAL STRUCTURE AND FUNCTION

Aspects of microbiology impinge upon many facets of daily life, for example, human health, genetic engineering, the food industry and the built and natural environment. The unit introduces you to and provides you with a solid foundation in the basic microbiology required for progression to advanced studies in Microbiology. This unit provides knowledge about safe handling and study of micro-

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organisms that is also very important in many other disciplines, because micro-organisms are used as models and tools in a wide range of study areas.

**Prerequisites:** SCB112 and (SCB121 or SCB113)

**Antirequisites:** LSB328  Credit points: 12  Contact hours: 4 per week  Campus: Gardens Point  Teaching period: 2011 SEM-1

LQB481 BIOCHEMICAL PATHWAYS AND METABOLISM

The study of biochemistry and cell biology, along with molecular biology, provides students with the knowledge required for the proper understanding of the structure and function of living organisms at the molecular level. As such, this unit extends the studies begun in the unit LQB381 Biochemistry into the metabolic processes occurring in living cells, and provides students with a basis for further studies in biochemistry as well as support for other units in the third year of the course.

**Prerequisites:** LQB381 or LSB308  Corequisites: PUB405  Antirequisites: LSB275, LSB325, LSB408  Credit points: 12  Contact hours: 4 per week  Campus: Gardens Point  Teaching period: 2011 SEM-2

LQB483 MOLECULAR BIOLOGY TECHNIQUES

Molecular biology and recombinant DNA technologies have important roles in many areas within the life sciences, including medicine, agriculture, cell biology, environmental science and forensics. Through close alignment of theoretical concepts and practical skills, this lab-based unit expands on molecular themes introduced in earlier cell and molecular biology units to develop expertise in modern recombinant DNA techniques and an understanding of strategies used to identify and manipulate genes. The close relationship between theory and practice in this unit is designed to develop competence, independence and critical thinking that will provide students with a solid foundation for advanced molecular biology studies presented in several third level units.

**Prerequisites:** LSB238 or SCB122  Antirequisites: LSB468, LSN468, LSN483  Assumed knowledge: LQB383 is recommended prior study  Credit points: 12  Contact hours: 4 per week  Campus: Gardens Point  Teaching period: 2011 SEM-2

LQB484 INTRODUCTION TO GENOMICS AND BIOINFORMATICS

The completion of the Human Genome project, along with similar projects on other organisms of a prokaryote and eukaryote nature, marked the beginning of a major revolution in fundamental biology that changed our understanding of the natural world. To understand how information on genome structure-function relationships (ie bioinformatics) is being used in areas such as gene discovery, disease diagnosis and drug development, students need to understand how the information content of DNA and proteins is extracted and analysed. This unit introduces students to the approaches to database mining and genome exploration.

**Prerequisites:** LQB383 or LSB338 or LSN101 and LSN102  Antirequisites: LSB537, LSB619, LSB469  Credit points: 12  Contact hours: 4 per week  Campus: Gardens Point  Teaching period: 2011 SEM-2

LQB486 CLINICAL MICROBIOLOGY 1

Micro-organisms are very important as pathogens of humans and animals, and their accurate clinical diagnosis is essential for appropriate treatment and management of infections. This unit builds upon the foundational topics in microbiology that you learned in LQB386 (Microbial Structure and Function) and starts preparing you for a career in a microbiology laboratory in clinical practice, industry or research. The unit will advance your knowledge and skills in classical methods of isolation and identification of bacteria in clinical specimens and introduce aspects of microbial pathogenesis and antibiotic sensitivity. The unit will provide you with an understanding of clinically important viruses, and will commence your training in diagnostic parasitology.

**Prerequisites:** LQB386 or LSB328  Antirequisites: LSB435, LSB457  Credit points: 12  Contact hours: 4 per week  Campus: Gardens Point  Teaching period: 2011 SEM-2

LQB581 FUNCTIONAL BIOCHEMISTRY

This unit will study advanced biochemical concepts with a focus on metabolism, signalling pathways, systems and networks that coordinate and regulate the functional behaviour of cells and tissues.

**Prerequisites:** (LQB381 or LSB308) and (LQB383 or LSB338)  Antirequisites: LSB508  Credit points: 12  Contact hours: 5 per week  Campus: Gardens Point  Teaching period: 2011 SEM-1

LQB582 BIOMEDICAL RESEARCH TECHNOLOGIES

This unit will study the technical principles and practical techniques that are essential for advancing research and development in biochemistry and biotechnology.

**Prerequisites:** LQB381 or LSB308  Antirequisites: LSB527  Credit points: 12  Contact hours: 4 per week  Campus: Gardens Point  Teaching period: 2011 SEM-1

LQB583 GENETIC RESEARCH TECHNOLOGY

The tools available for the discovery and manipulation of new genes are increasing exponentially and, in turn, this is having a significant impact in many areas of the life sciences. The true potential for this ultimately relies on the ability to link genes and their function. There are many strategies, both targeted and global, which facilitate an understanding of gene and genome structure function relationships. These strategies rely on integrated
technologies based on molecular genetics, molecular biology and genetic engineering. The identification of function leads then to unlimited potential for detection and manipulation of these genes in human, animal and plant systems.  

Prerequisites: LQB483  Credit points: 12  Contact hours: 4 per week  Campus: Gardens Point  Teaching period: 2011 SEM-1

LQB584 MEDICAL CELL BIOLOGY
This unit builds and extends the understanding of basic theoretical and practical aspects of molecular cell biology developed in previous cell and molecular biology units. Medical Cell Biology develops and extends the context of the cellular environment and its central role within the organism providing all of the biological functions required by the organism to survive, defend and protect itself from disease and trauma. An understanding of cell biology theory and molecular mechanisms of animal development and disease is essential for introduction to higher level units in medical biotechnology.  

Prerequisites: LQB383 or LSB338  Antirequisites: LSB449, LSB503, LSN584  Credit points: 12  Contact hours: 4 per week  Campus: Gardens Point  Teaching period: 2011 SEM-1

LQB585 PLANT GENETIC MANIPULATION
The potential of plant biotechnology can only be recognised as a result of the significant advances being made in technologies enabling the genetic manipulation of plants. Familiarity with the strategies, techniques and breadth of applications is essential as a basis for anyone planning a career in plant biotechnology. The unit is designed with a significant emphasis on achieving technical expertise in plant genetic manipulation and control of gene expression.  

Credit points: 12  Contact hours: 4 per week  Campus: Gardens Point  Teaching period: 2011 SEM-1

LQB586 CLINICAL MICROBIOLOGY 2
Clinical microbiology laboratories throughout the world are recognising the need to maximise their diagnostic capabilities for accurate and early detection and management of medically-important parasitic, fungal and bacterial diseases of humans. This unit emphasises a strong commitment to professional practice by: (i) providing you with a comprehensive, in-depth knowledge and understanding of infectious disease states and their etiology, (ii) developing high level generic and specific laboratory-based skills in diagnostic microbiology and (iii) developing and refining critical thinking skills so that experimental results may be observed and recorded intelligently and reported with a high degree of confidence in their validity and rigor.  

Prerequisites: LQB486  Antirequisites: LSB547 and LSB647  Credit points: 12  Contact hours: 4 per week

LQB587 APPLIED MICROBIOLOGY 1: WATER, AIR AND SOIL
Issues relating to microbial populations within the environment are of great interest and relevance to the community, and also to scientists. Building on the foundation of basic microbiology, in this advanced level unit you will gain a strong understanding of the nature of microbial populations in water, air and soil, and their importance to the human population. This unit is issues-based, encouraging a problem solving approach as you investigate/study microbial pollution, bioremediation, biogeochemical cycles and a healthy environment. You will gain knowledge and skills in analysis and interpretation of water, air and soil populations, which will permit you to investigate real-world problems.  

Prerequisites: LQB386, LSB328, or LSB492  Antirequisites: LSB528  Credit points: 12  Contact hours: 4 per week  Campus: Gardens Point  Teaching period: 2011 SEM-1

LQB680 FORENSIC DNA PROFILING
The individuality of human beings is manifested at the molecular level in terms of our DNA, proteins and antigens. Techniques in molecular genetics are most commonly used to detect this individuality in biological samples, such as blood, semen, hair, teeth, bone or saliva. This is one of the final units in the forensic science major, which will draw together knowledge and understanding gained in previous studies. The aim of this unit is to develop your understanding of the application of DNA technologies to human identification for forensic purposes such as crime, parentage testing and the identification of human remains, as well as the issues related to presenting DNA evidence to court.  

Prerequisites: SCB384  Credit points: 12  Contact hours: 4 per week  Campus: Gardens Point  Teaching period: 2011 SEM-2

LQB681 BIOCHEMICAL RESEARCH SKILLS
In the real world, the design and completion of successful research and/or business projects demand that individuals gather information, solve problems, work effectively as a part of a team and analyse and communicate results in a critical manner. This unit offers opportunities for you to develop these skills that are valued highly by potential employers and research project leaders. The aim of this unit is to assist you to demonstrate and strengthen a number of generic research skills in a mentored problem-based learning environment that mirrors a real-world research team and the challenges that they face.  

Prerequisites: LQB381 or LSB308. Students with equivalent study can apply for a requisite waiver  

Equivalents: LSB607  Credit points: 12  Contact
LQB682 PROTEIN BIOCHEMISTRY AND BIOENGINEERING
This unit is designed to give you the essential concepts and techniques driving research and industrial biotechnology so that you will be equipped for multiple careers in the biological sciences. The skills you develop will allow you to enter a practical laboratory environment or to apply your knowledge in related areas of evaluations of technologies and intellectual property.
Prerequisites: LQB381 or LSB308 or LSB325 or (LSN101and LSN102) Antirequisites: LSB605, LSB608
Credit points: 12 Contact hours: 5 per week Campus: Gardens Point Teaching period: 2011 SEM-2

LQB684 MEDICAL BIOTECHNOLOGY
Medical Biotechnology will provide you with a thorough understanding of diagnostics and therapeutics in the commercial environment of biotechnology. A comprehension of approaches and the applications used as therapeutic interventions in medicine is necessary for this understanding. This unit focuses on current state-of-the-art applications within therapeutic biotechnology as directed to novel drug discovery and drug optimisation and to the development of novel therapeutic strategies, such as gene therapy, transplantation and immunotherapy. It will prepare you for subsequent involvement in medical research and/or employment in medical laboratories.
Prerequisites: LQB584 or LSB503 or LSB449
Antirequisites: LSN684 Assumed knowledge: A background understanding of Cell and Molecular Biology as provided in LQB383, LQB483 and LQB584 is assumed knowledge Equivalents: LSB609 Credit points: 12 Contact hours: 5 per week Campus: Gardens Point Teaching period: 2011 SEM-2

LQB685 PLANT MICROBE INTERACTIONS
Microorganisms, including viruses, bacteria and fungi, cause many devastating diseases in plants and are responsible for significant losses to crops in Australia and Internationally. Diagnosis and control of these organisms, which vary considerably in their biology and infection strategies, is an ongoing challenge. However, plant genetic engineering approaches are now offering new and novel solutions to these problems. These approaches are of widespread scientific, commercial and humanitarian interest. The application of current technologies and development of new, novel technologies relies on an understanding of the biology of the organism, of the way in which these organisms cause disease in plants and the mechanism by which many plants are resistant.
Prerequisites: LQB483 or LSN483 Antirequisites: LSB578 Assumed knowledge: LQB386 recommended

LQB686 MICROBIAL TECHNOLOGY AND IMMUNOLOGY
This capstone unit builds upon your foundation knowledge and understanding of microorganisms and bioinformatics, molecular technology, and immunological skills. You will: (i) study infectious disease states as a major focus, (ii) research the importance of microbial pathogens as aetiological agents of disease, (iii) apply your knowledge of bioinformatics and molecular assays to design polymerase chain reaction (PCR) assays that can be used to selectively detect and amplify a specific bacterial pathogen, (iv) extend your knowledge of molecular subtyping methods, genomics, manipulation of bacterial genes, antibiotics, human immunology and vaccines, and (v) write a research report in the format of a journal article.
Prerequisites: LQB386 and LQB483 Antirequisites: LSB648 Credit points: 12 Contact hours: 4 per week Campus: Gardens Point Teaching period: 2011 SEM-2

LQB687 APPLIED MICROBIOLOGY 2: FOOD AND QUALITY ASSURANCE
Food microbiology and quality assurance constitute potential areas of employment for graduates. Many aspects of these disciplines are important in public health and operational management. Understanding fundamental concepts and their correct application are critical for food safety and management of both food- and non-food-based operations. This unit with content in applied food microbiology and quality systems, builds on the introduction to food microbiology provided in earlier units. The aim of this unit is to gain advanced knowledge and expertise in food microbiology and fundamental quality assurance principles suitable for application in food and other (bio)technology-based industries.
Prerequisites: LQB386 or LSB328 Assumed knowledge: Completion of 72 credit points of second level science units is assumed knowledge Equivalents: LSB628 Credit points: 12 Contact hours: 4 per week Campus: Gardens Point Teaching period: 2011 SEM-2

LQB688 BIODEGRADATION OF TOXIC CHEMICALS
This unit explores the principles and practice of biodegradation of toxic chemicals. It introduces the concept of, and examines the potential environmental applications of, biodegradation of toxic and persistent organic pollutants. Prerequisites: Attendance in LQB687. Antirequisites: None
Credit points: 12 Contact hours: 5 per week Campus: Gardens Point Teaching period: 2011 SEM-2

LWB136 CONTRACTS A
This unit includes the following: formation of contracts; equitable estoppel; privity of contract; formalities; express and implied terms; an examination of promises which are legally binding; how contractual promises may be characterised and the significance of that characterisation.
Credit points: 12 Contact hours: 3 per week Campus: Gardens Point and External Teaching period: 2011 SEM-1 and 2011 SEM-2

LWB137 CONTRACTS B
Legally binding promises pervade society, from uncomplicated bargains like riding on a bus to complex multi-million dollar transactions. The law of contract provides an understanding of promises which are legally binding, how contractual promises may be characterised and the significance of that characterisation, and how contractual promises may be discharged or invalidated. This is the second of two associated units which examine the law of contract, the focus of this unit being on the discharge of contracts, remedies for breach and the invalidation of contracts. The two units together provide the foundation for several units encountered later in the course.

**Prerequisites:** LWB136  
**Credit points:** 12  
**Contact hours:** 3 hours per week  
**Campus:** Gardens Point and External  
**Teaching period:** 2011 SEM-1 and 2011 SEM-2

### LWB142 LAW, SOCIETY AND JUSTICE

This unit examines the basic tenets of our democratic liberal legal system, particularly the central concept, the rule of law. The unit begins with an historical development of rights and the rule of law. It looks at how law and values intertwine and how society at a particular time shapes notions of legal personality, the recognition of ‘family’ and human rights in law. It finally addresses the limitations of democratic liberalism and the rule of law by examining the reality of equality before the law in relation to such topics as gender and cultural neutrality, equal access to justice, and lawyers and the adversarial system.

**Credit points:** 12  
**Contact hours:** 3 per week  
**Campus:** Gardens Point and External  
**Teaching period:** 2012 SEM-1

### LWB144 LAWS AND GLOBAL PERSPECTIVES

This unit examines their relevance to contemporary legal practice in Australia.

**Credit points:** 12  
**Contact hours:** 3 per week  
**Campus:** Gardens Point and External  
**Teaching period:** 2011 SEM-2

### LWB144 LAWS AND GLOBAL PERSPECTIVES

This unit is designed to give students an understanding of the global context in which Australia operates and the important impact of this context on Australian law and legal practice. The unit introduces and explains the fundamental structures and principles of Comparative Law, Public International Law and Private International Law; and examines their relevance to contemporary legal practice in Australia.

**Credit points:** 12  
**Contact hours:** 3 per week  
**Campus:** Gardens Point and External  
**Teaching period:** 2012 SEM-2

### LWB145 LEGAL FOUNDATIONS A

The unit aims to provide foundational knowledge about law and legal concepts, the Australian legal system and constitution, sources of law (including their purpose and use) and the ethical underpinnings of the law and legal profession. The unit also aims to introduce, within real world contexts, the essential legal skills of case analysis, problem solving, legal writing, legal reasoning, legal research and statutory interpretation to enable students to progress in their study of law.

**Corequisites:** LWB147  
**Credit points:** 12  
**Contact hours:** 3 per week  
**Campus:** Gardens Point and External  
**Teaching period:** 2011 SEM-1 and 2011 SEM-2

### LWB146 LEGAL FOUNDATIONS B

The aim of this unit is for you to further develop, within real world contexts, the skills in legal research, analysis, problem solving and writing that were introduced in LWB145 Legal Foundations A. This aim is directed towards ensuring that by the end of the first year of your law degree you are able to perform tasks required to progress your study of law and that you can reflect on the continued development of your legal research and writing skills to equip you with the skills required in legal practice.

**Prerequisites:** LWB141 or LWB145  
**Credit points:** 12  
**Contact hours:** 3 per week  
**Campus:** Gardens Point and External  
**Teaching period:** 2011 SEM-1 and 2011 SEM-2

### LWB147 TORTS A

The aims of this unit are for you to develop an understanding of the law of torts relating to trespass, negligence and workers’ compensation and the underlying principles and policies that influence the development of torts law. Further, this unit aims to demonstrate how the law of torts works in a real world context, with particular focus on legal problem solving and the teaching of legal
interviewing skills. The unit will practise and develop the foundational legal skills introduced in LWB145 Legal Foundations A.

**Prerequisites:** LWB145 (can be enrolled in the same teaching period)  
**Credit points:** 12  
**Contact hours:** 3 per week  
**Campus:** Gardens Point and External  
**Teaching period:** 2011 SEM-1 and 2011 SEM-2

**LWB148 TORTS B**  
This unit aims to build upon the knowledge, understanding and skills developed in Torts A through a more in-depth examination of a wider range of torts and related issues. It also aims to equip you with a more detailed and sophisticated knowledge and understanding of how this area of the law is likely to develop in the 21st Century. Integral to this is the development of your skills, necessary for the practice of law and your further studies of law, in legal problem solving, research and written communication and an understanding of ethical issues related to the practice of law.

**Prerequisites:** LWB138 or LWB147 or LWB146 where LWB146 can be enrolled in the same study period  
**Credit points:** 12  
**Contact hours:** 3 per week  
**Campus:** Gardens Point and External  
**Teaching period:** 2011 SEM-1 and 2011 SEM-2

**LWB149 INDIGENOUS LEGAL ISSUES**

Indigenous Australians have a unique position in Australian society as the traditional owners and custodians of the Australian continent and its offshore islands. The colonisation of Australia and the introduction of Anglo-Australian law have had a profound impact on Indigenous Australians and in many ways have contributed to the current level of social and economic disadvantage in Indigenous communities. This unit aims to provide you with an understanding of how government law and policy has had an especially adverse effect on Australian Indigenous peoples. It explores the potential for greater recognition of Indigenous rights, including the right to self determination, in the Australian context. The unit is of relevance if you are intending to work in legal practice, public sector policy or community organisations.

**Prerequisites:** LWB145. LWB145 can be studied in the same teaching period  
**Credit points:** 12  
**Campus:** Gardens Point and External  
**Teaching period:** 2011 SEM-2

**LWB150 LAWYERING AND DISPUTE RESOLUTION**

Law students, and first year law students in particular, need an introduction to the context of legal professional practice to inform their study of the law. It is critical for the effective learning of law that students start to ‘think like a lawyer’, and understand the important and positive role that lawyers play in society. This role includes upholding the rule of law and assisting people to resolve disputes. In this unit students are introduced to a range of aspects of legal practice, with a focus on non-adversarial approaches to practice and to legal advocacy. Students are also introduced to key foundational lawyering skills centred on effective legal practice. In this way students are encouraged to develop an emergent sense of a positive professional legal identity.

**Prerequisites:** LWB145 (can be enrolled in the same study period)  
**Credit points:** 12  
**Campus:** Gardens Point and External  
**Teaching period:** 2012 SEM-1

**LWB150 LAWYERING AND DISPUTE RESOLUTION**

**Credit points:** 12  
**Campus:** Gardens Point and External  
**Teaching period:** 2011 SEM-2

**LWB238 FUNDAMENTALS OF CRIMINAL LAW**

An understanding of the principles of Criminal Law is of fundamental importance as it impinges upon almost every aspect of domestic, commercial, corporate and public activity in Queensland. The aim of this unit is to provide an overview of the aims and sources of Criminal Law in Queensland and to develop an understanding of the onus of proof in criminal matters. Additionally the unit explores the concept of fault elements, the criminal justice system and a selection of major offences while also developing advocacy skills.

**Prerequisites:** LWB145. LWB145 can be studied in the same teaching period as LWB238  
**Credit points:** 12  
**Contact hours:** 3 per week  
**Campus:** Gardens Point and External  
**Teaching period:** 2011 SUM-2 and 2011 SEM-1

**LWB239 CRIMINAL RESPONSIBILITY**

The aim of this unit is to build upon the principles and skills explored in LWB238 by developing an understanding of the way criminal responsibility is imposed through the complicity provisions of the Criminal Code and the common law and how the major defences and excuses operate. The unit also examines the major sentencing principles applied in
Queensland.
Prerequisites: LWB238 Credit points: 12 Contact hours: 3 per week Campus: Gardens Point and External Teaching period: 2011 SEM-2

LWB239 CRIMINAL RESPONSIBILITY
The aim of this unit is to build upon the principles and skills explored in LWB238 by developing an understanding of the way criminal responsibility is imposed through the complicity provisions of the Criminal Code and the common law and how the major defences and excuses operate. The unit also examines the major sentencing principles applied in Queensland.
Prerequisites: LWB238 Credit points: 12 Contact hours: 3 per week Campus: Gardens Point and External Teaching period: 2012 SUM-2 and 2012 SEM-2

LWB240 PRINCIPLES OF EQUITY
The principles of Equity were originally developed to ameliorate the harshness of the common law and have since become a fundamental component of our legal system. A knowledge and understanding of the major principles of equity are necessary to an understanding of how the Australian legal system operates; it is therefore located early in the LLB degree. The aim of this unit is to provide a coherent knowledge and understanding of equitable principles within the context of the Australian legal system as well as developing skills relevant to ongoing learning and professional practice.
Prerequisites: LWB136 Credit points: 12 Contact hours: 3 per week Campus: Gardens Point and External Teaching period: 2011 SEM-1

LWB241 TRUSTS
Trusts are a fundamental institution of ownership of property in equity; they are used for various purposes including estate planning, commercial and charitable purposes. A knowledge and understanding of the trust in its various forms and the equitable principles of property transfer are fundamental in understanding the impact of the principles of equity in the area of property ownership and rights. The aim of this unit is to provide a coherent knowledge and understanding of the law relating to trusts within the context of the Australian legal system and to develop skills relevant to ongoing learning and professional practice.
Credit points: 12 Contact hours: 3 per week Campus: Gardens Point and External Teaching period: 2012 SEM-2

LWB244 PROPERTY LAW B
This unit aims to build upon the knowledge, understanding and skills that you acquired in LWB243 Property Law A by further developing your understanding of property law relating to leases, mortgages, co-ownership, community title, easements, profits a prendre and freehold and statutory covenants. It also aims to equip you with an understanding of how this area of the law is likely to develop in the 21st Century. Integral to this is the development of your skills of problem solving, research, writing and drafting which are necessary for the practice of law and your further studies of law, in legal problem solving and reasoning and oral and written communication.
Prerequisites: LWB243, LWB146, LWB241 (LWB241 can be enrolled in the same teaching period) Credit points: 12 Contact hours: 3 per week Campus: Gardens Point and External Teaching period: 2012 SEM-2

LWB244 PROPERTY LAW B
This unit aims to build upon the knowledge, understanding and skills that you acquired in LWB243 Property Law A by further developing your understanding of property law relating to leases, mortgages, co-ownership, community title, easements, profits a prendre and freehold and statutory covenants. It also aims to equip you with an understanding of how this area of the law is likely to develop in the 21st Century. Integral to this is the development of your skills of problem solving, research, writing and drafting which are necessary for the practice of law and your further studies of law, in legal problem solving, research, written communication and drafting.

**Prerequisites:** LWB243, LWB146, LWB241 (LWB241 can be enrolled in the same teaching period)  
**Credit points:** 12  
**Contact hours:** 3 per week  
**Campus:** Gardens Point and External  
**Teaching period:** 2011 SEM-2 and 2011 SUM

LWB302 FAMILY LAW
This unit considers the manner in which the law treats the special social relationships that exist among members of a family and transforms them into legal rights and duties. The following aspects are addressed: the family as a legal phenomenon; methods of dispute resolution in family law; annulment of marriages; dissolution of marriages; consequences of separation and divorce, such as maintenance, child support, adjustment of interests in property and parental responsibilities.

**Credit points:** 12  
**Contact hours:** 3 per week  
**Campus:** Gardens Point and External  
**Teaching period:** 2012 SUM-2 and 2012 SEM-2

LWB302 FAMILY LAW
This unit considers the manner in which the law treats the special social relationships that exist among members of a family and transforms them into legal rights and duties. The following aspects are addressed: the family as a legal phenomenon; methods of dispute resolution in family law; annulment of marriages; dissolution of marriages; consequences of separation and divorce, such as maintenance, child support, adjustment of interests in property and parental responsibilities.

**Credit points:** 12  
**Contact hours:** 3 per week  
**Campus:** Gardens Point and External  
**Teaching period:** 2011 SUM-2

LWB307 INSOLVENCY LAW
This unit examines the following: the insolvency of individuals and the Bankruptcy Act 1966 (Cwlth); winding up of companies; reconstructions and arrangements and voluntary administration as procedures other than winding up which may be open to an insolvent company; the law relating to receivership; relevant provisions of the Corporations Law.

**Prerequisites:** LWB334  
**Credit points:** 12  
**Contact hours:** 2 per week  
**Campus:** Gardens Point and External  
**Teaching period:** 2011 SEM-1

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This unit examines the following: the insolvency of individuals and the Bankruptcy Act 1966 (Cwlth); winding up of companies; reconstructions and arrangements and voluntary administration as procedures other than winding up which may be open to an insolvent company; the law relating to receivership; relevant provisions of the Corporations Law.

**Prerequisites:** LWB334  
**Credit points:** 12  
**Contact hours:** 2 per week  
**Campus:** Gardens Point and External  
**Teaching period:** 2012 SEM-1

LWB308 AUSTRALIAN EMPLOYMENT LAW
The employment relationship is one which affects us all, and in the light of recent legislative changes to industrial and employment law, will continue to have a profound effect on both our own lives and the lives of those with whom we come into professional contact. The study of Australian industrial law draws on students’ knowledge of contract, tort and constitutional law and introduces the legislative and common law bases by which industrial relations are conducted in this country.

**Prerequisites:** (LWB139 or LWB148) and (LWB231 or LWB242)  
**Credit points:** 12  
**Contact hours:** 3 per week  
**Campus:** Gardens Point and External  
**Teaching period:** 2011 SEM-2

LWB309 SUCCESSION
This unit includes the following: examination of the law with respect to wills and probate; a study of the formalities required to execute a valid will; the intestacy provisions where someone dies without having made a will; the rights of a testator’s family when they have not been named as a beneficiary in the deceased’s will; a detailed examination of the provisions of the Succession Act 1981 (Qld).

**Prerequisites:** LWB240, LWB241  
**Credit points:** 12  
**Contact hours:** 2 per week  
**Campus:** Gardens Point and External  
**Teaching period:** 2011 SEM-1

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This unit includes the following: examination of the law with respect to wills and probate; a study of the formalities required to execute a valid will; the intestacy provisions where someone dies without having made a will; the rights of a testator’s family when they have not been named as a beneficiary in the deceased’s will; a detailed examination of the provisions of the Succession Act 1981 (Qld).

**Prerequisites:** LWB240, LWB241  
**Credit points:** 12  
**Contact hours:** 2 per week  
**Campus:** Gardens Point and External  
**Teaching period:** 2012 SEM-1
LWB312 REAL ESTATE TRANSACTIONS
This unit includes an analysis of a land transaction through the principles involved in the construction of contracts for the sale of land, with special emphasis on the standard REIQ Contract Terms of Sale in use in Queensland. There is also reference to conveying of lots under the Body Corporate and Community Title Management Act 1997 and Land Sales Act 1984.
Prerequisites: LWB137, LWB240 and LWB244  Credit points: 12  Contact hours: 2 per week  Campus: Gardens Point and External  Teaching period: 2011 SEM-2

LWB313 DISCRIMINATION & EQUAL OPPORTUNITY LAW
This unit includes the following: an examination of the law and policy with respect to discrimination and equal opportunity in Australia; relevant international treaties and Australian legislation such as the Queensland Anti-Discrimination Act; the Anti-Discrimination Commission and procedures.
Credit points: 12  Contact hours: 3 per week  Campus: Gardens Point and External  Teaching period: 2011 SEM-1

LWB313 DISCRIMINATION & EQUAL OPPORTUNITY LAW
This unit includes the following: an examination of the law and policy with respect to discrimination and equal opportunity in Australia; relevant international treaties and Australian legislation such as the Queensland Anti-Discrimination Act; the Anti-Discrimination Commission and procedures.
Credit points: 12  Contact hours: 3 per week  Campus: Gardens Point and External  Teaching period: 2012 SEM-2

LWB333 THEORIES OF LAW
Legal practice requires an understanding and appreciation of its philosophical and theoretical foundations, as these guide the policies and inform changes to law through legislative and judicial action. Understanding the major theoretical and philosophical approaches assists with the resolution of novel and difficult legal problems. This unit imparts both knowledge based content and process based competencies that result in independent learning outcomes. Topics covered include natural law, positivism, Dworkin, social, economic and historical theories of law, legal realism, sociological theories of law, critical legal studies, postmodern legal thought, feminist theories of law, critical race theory, postcolonial legal theory.
Credit points: 12  Contact hours: 3 per week  Campus: Gardens Point and External  Teaching period: 2012 SEM-1

LWB334 CORPORATE LAW
This unit includes the following: the basic legal principles relating to registered companies; the principle of the veil of incorporation; internal functioning of a registered company including the operation of the constitution and replaceable rules; dealings with third parties; legal rules relating to share capital; dividends and loan capital; introduction to obligations of company officers and shareholder rights.
Teaching period: 2011 SEM-2 and 2011 SUM

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This unit includes the following: the basic legal principles relating to registered companies; the principle of the veil of incorporation; internal functioning of a registered company including the operation of the constitution and replaceable rules; dealings with third parties; legal rules relating to share capital; dividends and loan capital; introduction to obligations of company officers and shareholder rights.
Teaching period: 2011 SEM-2 and 2011 SUM
Further specialised units such as Law of Corporate Governance are offered for students who have completed Corporate Law and wish to concentrate some of their studies in the corporations and commercial area. **Prerequisites**: (LWB143 or LWB146) and (LWB237 or LWB243)  
**Credit points**: 12  
**Contact hours**: 3 per week in Sem 2.  
**Campus**: Gardens Point and External  
**Teaching period**: 2012 SEM-2 and 2012 SUM

**LWB335 ADMINISTRATIVE LAW**
To enable you to develop a working knowledge of administrative law at both the state and federal level as well as a broader understanding of the role and function of this area of law in balancing administrative efficiency and legitimate government interests against the requirements of accountability in executive decision-making.  
**Prerequisites**: LWB242 or LWB231  
**Credit points**: 12  
**Contact hours**: 3 per week  
**Campus**: Gardens Point and External  
**Teaching period**: 2012 SUM-2 and 2012 SEM-1

**LWB356 ADVOCACY**
Advocacy is the art of persuasion in Court and before Tribunals. This unit concentrates on developing the fundamental skills of a good advocate, namely analysis, preparation and performance. Students are required to participate in oral advocacy exercises and mock trials. Regular attendance is necessary for successful completion of this unit.  
**Prerequisites**: LWB432  
**Credit points**: 12  
**Contact hours**: Block Mode  
**Campus**: Gardens Point  
**Teaching period**: 2011 SUM-2 and 2011 SEM-1

**LWB361 DRAFTING**
This skills unit uses an interactive practical approach in teaching students the rules in drafting private legal documents in plain English. The general rules are considered first and then applied in drafting documents and parts of documents from the areas of conveyancing contracts (residential and commercial land, and businesses), options, leases, mortgages, guarantees and trusts. Stamp duty is also dealt with because of the close relationship stamp duty has with documents of various kinds.  
**Prerequisites**: LWB241, LWB244 and (LWB237 or LWB243)  
**Credit points**: 12  
**Contact hours**: 2hrs per week  
**Teaching period**: 2012 SEM-2

**LWB363 INSURANCE LAW**
Insurance is the payment of a premium by one to another to cover the risk that an unidentified event should occur, upon which a payment in the insured sum shall be made. This course prepares students to advise insureds and insurers alike on issues such as whether a policy covers the event which has occurred and whether there are grounds upon which all or part of a claim may be refused. In addition to principles of general insurance, the course also covers selected aspects of professional indemnity insurance, directors and officers insurance and a detailed study of the statutory framework in Queensland for compulsory third party motor vehicle insurance and workers compensation. Any one interested in litigation should study insurance law.  
**Prerequisites**: LWB137  
**Credit points**: 12  
**Contact hours**: 3 per week  
**Campus**: Gardens Point and External  
**Teaching period**: 2010 SEM-2

**LWB364 INTRODUCTION TO TAXATION LAW**
This unit examines the principles relating to the powers of the Australian government to impose income tax. This includes concepts of residence of individual tax payers for taxation purposes and source of income. Students consider the distinction between income and capital as this relates to the imposition of income tax and the concept of deductions as a means of reducing taxable income. Taxation of capital gains particularly as this relates to a taxpayer’s main residence, deceased estates and general transfers of assets is discussed in detail. The other major topic is a critical analysis of the need for the general anti-tax avoidance provisions and how they apply.  
**Antirequisites**: AYB219  
**Credit points**: 12  
**Contact hours**: 3 per week  
**Campus**: Gardens Point and External  
**Teaching period**: 2012 SEM-1

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**Antirequisites**: AYB219  
**Credit points**: 12  
**Contact hours**: 3 per week  
**Campus**: Gardens Point and External  
**Teaching period**: 2011 SEM-1 and 2011 SUM
LWB366 LAW OF COMMERCIAL ENTITIES
This unit examines the legal principles pertaining to a number of different structures found in commercial life. It includes a brief consideration of corporations, more detailed examination of partnerships, unit trusts, joint ventures and incorporated associations. Consideration is given to the definition of these structures, relationship with third parties, relationship of members inter se. This unit can be completed before or in conjunction with Corporate Law (LWB334).
Prerequisites: (LWB143 or LWB146) and (LWB237 or LWB244) and LWB240 and LWB241  Credit points: 12  
Contact hours: 3 per week   Campus: Gardens Point and External   Teaching period: 2012 SEM-1

LWB366 LAW OF COMMERCIAL ENTITIES
This unit examines the legal principles pertaining to a number of different structures found in commercial life. It includes a brief consideration of corporations, more detailed examination of partnerships, unit trusts, joint ventures and incorporated associations. Consideration is given to the definition of these structures, relationship with third parties, relationship of members inter se. This unit can be completed before or in conjunction with Corporate Law (LWB334).
Prerequisites: (LWB143 or LWB146) and (LWB237 or LWB244) and LWB240 and LWB241  Credit points: 12  
Contact hours: 3 per week   Campus: Gardens Point and External   Teaching period: 2011 SEM-1

LWB367 LAW OF CORPORATE GOVERNANCE
Successful completion of LWB334 Corporate Law is an essential prerequisite to undertaking this unit. This is a specialised unit providing an examination of the two organs which govern a company: the board of directors and the company in general meeting. The unit examines in some detail particular aspects of the law applicable to these bodies: some of the duties affecting directors; topical issues such as directors interests in contracts; the role of waiver of breaches and improprieties; members rights and protection; relevant aspects of meeting law; an examination of the roles of the Australian Securities Commission and the Australian Stock Exchange; the roles of the Institutional Shareholder and/or Shareholder Associations.
Prerequisites: LWB334  Credit points: 12  
Contact hours: 3 per week   Campus: Gardens Point and External   Teaching period: 2011 SEM-2

LWB406 FUNDAMENTALS OF PUBLIC INTERNATIONAL LAW
This unit considers the legal rules that govern the activities of nations and the regulation of the activities of nations by international organisations, such as the UN. It also includes: the creation of international law and its sources; treaties; customary law; general principles of law; the concept of international legal personality; statehood; self-determination; recognition; the effects of international law; sovereignty; international responsibility. It also includes the law of armed conflict.
Prerequisites: LWB144  Credit points: 12  
Contact hours: 2 per week   Campus: Gardens Point and External   Teaching period: 2012 SEM-2

LWB407 PRIVATE INTERNATIONAL LAW
This unit includes the body of law governing the resolution of private legal problems with a significant foreign (or inter-state) element. Topics studied include: jurisdiction of domestic courts to determine matters having a foreign element; enforcement of foreign judgments in the domestic jurisdiction; choice of law for the resolution of the dispute, both generally and in relation to family law, contract, tort, property and succession. This unit assumes a basic knowledge of these areas of substantive law and therefore is best taken as a final year unit.
Prerequisites: (LWB242 or LWB231) and (LWB237 or LWB244)  Credit points: 12  
Contact hours: 3 per week   Campus: Gardens Point and External   Teaching period: 2011 SEM-2

LWB410 COMPETITION LAW
This unit includes an overview of the anti-competitive practices that are proscribed by Part IV and Part XIB of the Trade Practices Act 1974 (Cth). It also deals with the remedies available for contraventions of Part IV and the possibility of obtaining authorisation from the Australian Competition and Consumer Commission. The access provisions of Part III A and Part XIC are also considered.
Credit points: 12  
Contact hours: 2 per week   Campus: Gardens Point and External   Teaching period: 2011 SEM-2

LWB413 QUEENSLAND PARLIAMENTARY INTERNSHIP PROGRAM
This unit provides an opportunity for students to learn about the workings of the Queensland Parliament and to undertake a piece of research of interest and use to a member or senior officer of Parliament. Places are limited and preference will be given to students with a good academic record. This unit may be undertaken in semester 2, and intending students should contact the Unit Coordinator in May of each year. Places are generally available only to students in their final year of study who have achieved a grade point average of at least 5.2 or have demonstrated other evidence of capacity for research and report writing.

**Prerequisites:** 192 Credit Value in spk(s): LWB%  
**Credit points:** 12  
**Campus:** Gardens Point  
**Teaching period:** 2011 SEM-2

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**Prerequisites:** 192 Credit Value in spk(s): LWB%  
**Credit points:** 12  
**Campus:** Gardens Point  
**Teaching period:** 2012 SEM-1 and 2012 SEM-2

**LWB418 COMPETITION MOOTS 1**

If students have completed the core units in first and second year, enjoy working under pressure and have participated in at least one moot as counsel, they may apply when applications are called for. Places are very limited, but if students are successful, they can take their skills to the national and international arena, and experience mooting at the highest level. International and national moots require significant preparation and attention to detail, with a very high level of commitment, research, writing and discipline knowledge. Because of the timetabling of international moots throughout the year, students may be required to work on the competition moot from November to February. The number of moots offered will vary from year to year.

**Prerequisites:** LWB137 and LWB238 and (LWB139 or LSB148) and (LSB231 or LWB242)  
**Credit points:** 12  
**Campus:** Gardens Point  
**Teaching period:** 2011 SEM-1 and 2011 SEM-2

**LWB419 COMPETITION MOOTS 2**

This unit allows a student to build on the skills they have learnt in LWB418 Competition Mooting 1, to give them a higher level of understanding of oral and written argument and persuasive speaking, and an ability to apply these skills in an international competitive context.

**Prerequisites:** LWB418  
**Credit points:** 12  
**Campus:** Gardens Point  
**Teaching period:** 2011 SEM-1 and 2011 SEM-2

**LWB419 COMPETITION MOOTS 2**

This unit allows a student to build on the skills they have learnt in LWB418 Competition Mooting 1, to give them a higher level of understanding of oral and written argument and persuasive speaking, and an ability to apply these skills in an international competitive context.

**Prerequisites:** LWB418  
**Credit points:** 12  
**Campus:** Gardens Point  
**Teaching period:** 2012 SEM-1 and 2012 SEM-2

**LWB420 INTERNSHIP**

The aim of this unit, ideally to be undertaken in the later years of the LLB course, is to provide an opportunity for students to work in a functioning workplace environment with a broad public law focus and to enable students to

**Prerequisites:** 192 Credit Value in spk(s): LWB%  
**Credit points:** 12  
**Campus:** Gardens Point  
**Teaching period:** 2012 SEM-1 and 2012 SEM-2

**LWB420 INTERNSHIP**

The aim of this unit, ideally to be undertaken in the later years of the LLB course, is to provide an opportunity for students to work in a functioning workplace environment with a broad public law focus and to enable students to
engage in practical tasks, that require demonstration of legal analysis critical reflection and appropriate communication skills.

**LWB421 LEARNING IN PROFESSIONAL PRACTICE**
This unit provides students with the experience of working in a legal professional placement in the private sector. The student will reflect upon and learn from this experience through keeping a reflective journal, sharing their experiences with other students and use of the student ePortfolio. Integral to the student's experience will be the identification and consideration of the theory/practice nexus.

**Credit points:** 12  
**Campus:** Gardens Point  
**Teaching period:** 2011 SEM-2 and 2011 SUM

**Prerequisites:** 192 Credit Value in spk(s): LWB%

**LWB422 VIRTUAL LAW PLACEMENT**
The aim of the VLP unit is to provide you with a real world learning experience through your application for, and supervised placement in one of a diverse range of legal workplace environments. Through this experience you should achieve a greater knowledge and understanding of the dynamic relationship between academic knowledge and its practical application to the legal issues that arise in a workplace; as well as the opportunity to identify and practise the graduate capabilities relevant to the workplace environment in which your virtual placement is located.

**Credit points:** 12  
**Campus:** Gardens Point and External  
**Teaching period:** 2011 SEM-2

**Prerequisites:** LWB238

**LWB423 INTELLECTUAL PROPERTY AND TECHNOLOGY LAW CLINIC**

**Teaching period:** 2012 SEM-2

**Credit points:** 12  
**Teaching period:** 2011 SEM-2

**LWB431 CIVIL PROCEDURE**
This core unit focuses on developing basic litigation skills. The following issues are examined: the adversarial system and alternative methods of dispute resolution, obligations to the client, the structures and processes of litigation conducted in the Supreme, District and Magistrates Courts, jurisdiction, originating process, notice of intention to defend, parties, service, ending proceedings early, pleading, disclosure, subpoenas, trial, appeals, costs and enforcement.

**Prerequisites:** 192 Credit Value in spk(s): LWB%

**LWB432 EVIDENCE**
The law of Evidence concerns those rules and principles which govern the presentation and proof of facts and information in court proceedings, both civil and criminal. The unit covers both State and Federal jurisdictions. NB: External only in Semester Two.

**Prerequisites:** LWB238

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**Prerequisites:** 192 Credit Value in spk(s): LWB%

**LWB434 EVIDENCE**
The law of Evidence concerns those rules and principles which govern the presentation and proof of facts and information in court proceedings, both civil and criminal. The unit covers both State and Federal jurisdictions. NB: External only in Semester Two.

**Prerequisites:** LWB238
LWB433 PROFESSIONAL RESPONSIBILITY
This unit includes the following: the ethical principles upon which the practice of all professions is based; the principles which underpin the discipline of law and the workings of the legal profession; the history, nature, organisation and operation of the legal profession; codes of conduct, trust accounts and professional legal ethics.
Prerequisites: 192 Credit Value in spk(s): LWB% Credit points: 12 Contact hours: 2 per week in Sem 2. Campus: Gardens Point and External Teaching period: 2011 SUM-2 and 2011 SEM-2

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Prerequisites: 192 Credit Value in spk(s): LWB% Credit points: 12 Contact hours: 3 per week in Sem 2. Campus: Gardens Point and External Teaching period: 2012 SUM-2 and 2012 SEM-2

LWB435 LEGAL RESEARCH IN PRACTICE
The aim of this unit is assist you to develop the advanced legal skills necessary to solve and communicate options for the resolution of complex legal problems (issue identification, legal research, critical analysis and effective writing), in a professional context. The unit also aims to advance your ability to acquire new knowledge independently. The focus of the unit is on teaching doctrinal legal research skills.
Prerequisites: 192 Credit Value in spk(s): LWB% Credit points: 12 Contact hours: 3 per week Campus: Gardens Point and External Teaching period: 2012 SEM-1

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Prerequisites: 192 Credit Value in spk(s): LWB% Credit points: 12 Contact hours: 3 per week Campus: Gardens Point and External Teaching period: 2011 SEM-1

LWB456 LEGAL CLINIC (ORGANISED PROGRAM)
In this unit students are provided with the opportunity to see law in action through being involved in the delivery of legal services to members of the community under the umbrella of Legal Aid Queensland, the Prisoners Legal Service Inc or the Aboriginal and Torres Strait Islander Corporation (QEA) for Legal Services. Students work in their placement is supplemented with a weekly seminar program that deals with such topics as legal interviewing, family and criminal law practice, professionalism and legal writing.
Prerequisites: LWB418 Credit points: 12 Campus: Gardens Point Teaching period: 2011 SEM-2

LWB459 COMMERCIAL AND CONSUMER LAW
Commercial Law concerns rights in relation to personal property, in particular goods, in the context of commercial transactions. Consumer Law focuses on the rights afforded by the law to the consumer in commercial and financial transactions.

This unit builds on the knowledge of the laws of personal property gained in Property Law A. The concepts of personal property law underpin sale of good transactions. It is important to have a sound understanding of these concepts to be able to apply the relevant statutory provisions.

The principles of agency law will be examined at an advanced level given the relevance of agency to commercial transactions.
Prerequisites: LWB243 Credit points: 12 Contact hours: 2 per week Campus: Gardens Point and External Teaching period: 2012 SEM-1

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The principles of agency law will be examined at an advanced level given the relevance of agency to commercial transactions.
Prerequisites: LWB243 Credit points: 12 Contact hours: 2 per week Campus: Gardens Point and External
LWB460 SPORTS LAW
Sport is an area that is becoming increasingly business orientated and litigious. If you plan to work as a manager, administrator or lawyer in the area of sports you will, in the course of your day to day activities, encounter a wide variety of situations that could have potential legal consequences. As a result, a sound knowledge of the key areas of the law relevant in this area, such as torts, contract, sporting tribunals, discrimination and licensing, and how to apply them to real world problems is essential.

This unit is an elective in the law degree in the human rights elective interest group.
Credit points: 12  Contact hours: 2 per week  Campus: Gardens Point and External

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This unit is an elective in the law degree in the human rights elective interest group.
Credit points: 12  Contact hours: 2 per week  Campus: Gardens Point and External

LWB463 IMMIGRATION AND REFUGEE LAW
Immigration and refugee law is currently a key area of law and policy in Australian society. If working in this area of the law it is important that you have an understanding of some of the underpinning theories and of how historical, political and socio-economic factors can impact on this area of the law. It is also important to have a working knowledge of the legislation and case law, including key administrative and constitutional law principles, and how to apply them to real world scenarios.

This unit is an elective in the law degree and forms part of the human rights elective group.
Credit points: 12  Contact hours: 2 per week  Campus: Gardens Point and External

LWB480 MEDIA LAW
This unit examines the regulation and non-regulation of freedom of speech exercised by the media. In this regard various limitations imposed by the common law, statute and self-regulation will be examined, such as defamation, restrictions on reporting courts and politics, contempt, privacy and confidentiality.
Prerequisites: LWB147 or LWB138  Credit points: 12  Contact hours: 3 per week  Campus: Gardens Point and External  Teaching period: 2010 SEM-2

LWB482 INTERNET LAW
This unit addresses the idea that it is vital for any participant in the digital age to gain a thorough knowledge of the structure, governance and regulation of the Internet, digital intellectual property, and risk management strategies for stakeholders.
Credit points: 12  Contact hours: 2 per week  Campus: Gardens Point and External  Teaching period: 2012 SEM-2

LWB483 MEDICO-LEGAL ISSUES
This unit considers the regulation of health care as well as the relationship between the individual and the health care provider in terms of consent to treatment; negligence; the impact of the criminal law; abortion; removal from life support systems; mental illness; medical records and evidence; ownership and confidentiality of records; the duty to treat; complaints against hospitals and health care workers.
Prerequisites: LWB147 or LWB138  Credit points: 12  Contact hours: 3 per week  Campus: Gardens Point and External  Teaching period: 2012 SEM-2
LWB485 ENVIRONMENTAL LAW
This unit provides an introduction to environmental law in Queensland: the sources, nature and development of environmental law in Queensland; the concepts of environmental law (for example property, administrative control, law and policy, planning, management); access to the environment; planning to prevent environment degradation and pollution; protecting the environment; managing the environment; conservation; ecologically sustainable development; enforcement of environmental law; the role of the Commonwealth.
Credit points: 12  Contact hours: 2 per week  Campus: Gardens Point and External  Teaching period: 2011 SEM-1

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This unit provides an introduction to environmental law in Queensland: the sources, nature and development of environmental law in Queensland; the concepts of environmental law (for example property, administrative control, law and policy, planning, management); access to the environment; planning to prevent environment degradation and pollution; protecting the environment; managing the environment; conservation; ecologically sustainable development; enforcement of environmental law; the role of the Commonwealth.
Credit points: 12  Contact hours: 2 per week  Campus: Gardens Point and External  Teaching period: 2011 SEM-1

LWB486 INTELLECTUAL PROPERTY LAW
There have been significant developments in the field of intellectual property law in recent years and the area is undoubtedly one perceived by the practising profession as growing in importance. This unit will provide a foundation to those areas of intellectual property law that legal practitioners may encounter in their everyday practice. In so doing, it will provide an examination of each of the intellectual property regimes. The course will also consider some of the broader more general policy matters as they relate to the field of intellectual property law.
Prerequisites: LWB237 or LWB244  Credit points: 12  Contact hours: 3 per week  Campus: Gardens Point and External  Teaching period: 2012 SUM-2 and 2012 SEM-1

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Prerequisites: LWB237 or LWB244  Credit points: 12  Contact hours: 3 per week  Campus: Gardens Point and External  Teaching period: 2012 SUM-2 and 2012 SEM-1

LWB489 NATIVE TITLE LAW AND PRACTICE
Trusts are a fundamental institution of ownership of property in equity and they are used for various purposes including estate planning, commercial, and charitable purposes. A knowledge and understanding of the trust in its various forms and the equitable principles of property transfer are fundamental in understanding the impact of the principles of equity in the area of property ownership and rights. The aim of this unit is to provide you with an understanding of current Australian law and procedure relevant to native title issues, and a critical appreciation of the cultural, social, historical and broader legal context in which these issues arise.
Prerequisites: LWB237 or LWB244  Contact hours: 3  Campus: Gardens Point and External  Teaching period: 2011 SEM-2

LWB494 PRINCIPLES OF SENTENCING
This unit seeks to examine in detail the principles underlying the sentencing of offenders, by examining the theories of punishment and how they are employed in practice under the Penalties and Sentences Act 1992 (Qld). It also considers the principles of sentencing offenders, sentencing dispositions, and sentencing different classes of offenders, eg juveniles, dangerous offenders.
Prerequisites: LWB239  Credit points: 12  Contact hours: 3 per week  Campus: Gardens Point and External  Teaching period: 2010 SEM-2

LWB496 AUSTRALIAN AND COMPARATIVE HUMAN RIGHTS LAW
The law of human rights is being incrementally developed by the courts & may, in the next few years, be further promoted by statute law if other jurisdictions enact Acts like the ACT Human Rights Act 2004. There will be an increasing demand for lawyers who have detailed knowledge of this law.
This unit will explore the notion of what human rights are (except for anti-discrimination rights which are covered in other units), and will then explore the current protection given to human rights by the common law, by techniques of statutory interpretation, by express constitutional provisions, by constitutional implications and by reliance on international Conventions. We will then critically consider the different models for rights protection adopted in other nations.
Prerequisites: LWB239 and (LWB231 or LWB242)  Credit points: 12  Contact hours: 2 per week  Campus: Gardens Point and External  Teaching period: 2012 SEM-2
LWB497 ADVANCED RESEARCH PROJECT
The aim of the unit is to provide students with the opportunity to develop and apply the skills of research and writing, analysis and reasoning, by undertaking a specific, supervised project of research under the supervision of a senior academic, on a topic agreed between the student and supervisor which is suitable for achieving the objectives of the unit.

**Prerequisites:** 192cp of Law discipline units (LWS% units)  
**Credit points:** 12  
**Campus:** Gardens Point  
**Teaching period:** 2012 SEM-1 and 2012 SEM-2

LWB497 ADVANCED RESEARCH PROJECT
The aim of the unit is to provide students with the opportunity to develop and apply the skills of research and writing, analysis and reasoning, by undertaking a specific, supervised project of research under the supervision of a senior academic, on a topic agreed between the student and supervisor which is suitable for achieving the objectives of the unit.

**Prerequisites:** 192cp of Law discipline units (LWS% units)  
**Credit points:** 12  
**Campus:** Gardens Point  
**Teaching period:** 2011 SEM-1 and 2011 SEM-2

LWB498 DISPUTE RESOLUTION AND NON-ADVERSARIAL PRACTICE
Dispute resolution processes such as mediation and conciliation are now utilised in many areas of contemporary Australian society to resolve both legal and non-legal disputes. These processes are used both within the court system and outside it in legal, government, banking, workplace, community, complaints management, health and educational settings. In addition, in recent years, we have witnessed the increasing use by judicial officers of less adversarial approaches to justice within the court system with the aim of providing a more beneficial and effective outcome for clients. It is important that you as a future lawyer or legal professional have a knowledge and understanding of these processes along with a critical perspective of the adversarial system.

**Credit points:** 12  
**Contact hours:** 2  
**Campus:** Gardens Point  
**Teaching period:** 2011 SEM-1

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Dispute resolution processes such as mediation and conciliation are now utilised in many areas of contemporary Australian society to resolve both legal and non-legal disputes. These processes are used both within the court system and outside it in legal, government, banking, workplace, community, complaints management, health and educational settings. In addition, in recent years, we have witnessed the increasing use by judicial officers of less adversarial approaches to justice within the court system with the aim of providing a more beneficial and effective outcome for clients. It is important that you as a future lawyer or legal professional have a knowledge and understanding of these processes along with a critical perspective of the adversarial system.

**Credit points:** 12  
**Campus:** Gardens Point  
**Teaching period:** 2012 SEM-1

MAB101 STATISTICAL DATA ANALYSIS 1
Experiments, observational studies, sampling, and polls; data and variables; framework for describing and manipulating probability; independence; Binomial and Normal distributions; population parameters and sample statistics; concepts of estimation and inference; standard error; confidence intervals for means and proportions; tests of hypotheses on means and proportions (one sample and two independent samples); inference using tables of counts; modelling relationships using regression analysis; model diagnosis; use of statistical software.

**Antirequisites:** BSB123, EFB101, MAB141, MAN101, MAB233  
**Assumed knowledge:** Grade of at least Sound Achievement in Senior Mathematics B (or equivalent) or MAB105 is assumed knowledge.  
**Credit points:** 2  
**Teaching period:** 2011 SUM-1

MAB105 PREPARATORY MATHEMATICS
This unit is intended to cater for the needs of students whose background in mathematics is either weak or does not reach the equivalent of Senior Mathematics B. It is intended to provide the concepts and skills needed for successful study of those units within the university which assume a background equivalent to Senior Mathematics B. This unit is incompatible with a grade of High Achievement.
in Senior Mathematics B. The aim of this unit is to develop
your mathematical skills in and understanding of algebra,
functions and graphing, differential and integral calculus of
one variable and to interpret and solve simple, real world
problems using these skills.

**Assumed knowledge:** Year 10 Level 6 Mathematics is
assumed knowledge **Credit points:** 12 **Contact hours:**
4 per week **Campus:** Gardens Point **Teaching period:**
2011 SEM-1 and 2011 SEM-2

**MAB120 ALGEBRA AND CALCULUS**

This unit introduces and reviews the elementary concepts of
function, calculus, matrices and vectors with special
reference to applications in science, technology and
business where appropriate. Topics covered include
the algebra of complex numbers, elementary functions
(polynomial, trigonometric, exponential and logarithmic) and
their properties, differentiation and integration methods and
principles, geometric and algebraic applications of vectors
and the solution of linear systems using matrices.

**Antirequisites:** MAN120 **Assumed knowledge:** Grade
of at least Sound Achievement in Senior Mathematics B (or
equivalent) or MAB105 is assumed knowledge

**Equivalents:** MAB100, MAB125, MAB180 **Credit points:**
12 **Contact hours:** 4 per week **Campus:** Gardens Point
**Teaching period:** 2011 SEM-1, 2011 SEM-2 and 2011 SUM

**MAB121 CALCULUS AND DIFFERENTIAL EQUATIONS**

Building upon the foundations established in MAB120 or
Senior Maths C, this unit addresses the significant role of
mathematical modelling using differential equations for the
description and resolution of simple and complex problems
relevant to real world situations. The formulation and
solution of such problems is supported by appropriate
advanced mathematical concepts used for function
approximation, differentiation and integration. Undertaking
this unit will allow you to develop your problem solving skills,
especially in the context of advanced mathematical

**principles, geometric and algebraic applications of vectors
and their properties, differentiation and integration methods and
principles, geometric and algebraic applications of vectors
and the solution of linear systems using matrices.**

**Antirequisites:** MAN120 **Assumed knowledge:** Grade
of at least Sound Achievement in Senior Mathematics B (or
equivalent) or MAB105 is assumed knowledge

**Equivalents:** MAB100, MAB125, MAB180 **Credit points:**
12 **Contact hours:** 4 per week **Campus:** Gardens Point
**Teaching period:** 2011 SEM-1, 2011 SEM-2 and 2011 SUM

**MAB220 COMPUTATIONAL MATHEMATICS 1**

Many real world problems are not solvable analytically,
meaning that it is necessary to develop computational
methods that can be used to solve these problems. Additionally,
to be able to apply these methods to large
problems, they must be implemented as algorithms in a
computer language such as MATLAB. This unit addresses
both the theoretical development of computational methods
and their implementation in MATLAB. The aim of this unit is
to provide you with the introductory concepts, computational
methods and programming skills that will allow you to
solve many real world problems. It is also designed to
prepare you for study in the advanced units in
computational mathematics.

**Antirequisites:** MAN220 **Assumed knowledge:** Grade
of at least Sound Achievement in Senior Mathematics B (or
equivalent) or MAB105 and corequisite MAB120 or MAB125

**Equivalents:** MAB100, MAB125, MAB180 **Credit points:**
12 **Contact hours:** 4 per week **Campus:** Gardens Point
**Teaching period:** 2011 SEM-1, 2011 SEM-2

**MAB311 ADVANCED CALCULUS**

This unit includes the following: polar coordinates;
parametric equations; conic sections; quadric surfaces;
vector-valued functions; Fourier series; functions of several
variables; graphs; partial derivatives; total derivatives;
Lagrange multipliers; Taylor series for multivariable functions;
double and triple integrals; Green's theorems; line and surface integrals; divergence theorem;
Stoke's theorem; applications.

**Antirequisites:** MAN220 and MAN311 **Assumed knowledge:**
Grade of at least Sound Achievement in Senior Mathematics
B (or equivalent) or MAB105 and corequisite MAB120 or MAB125

**Equivalents:** MAB100, MAB125, MAB180 **Credit points:**
12 **Contact hours:** 4 per week **Campus:** Gardens Point
**Teaching period:** 2011 SEM-1, 2011 SEM-2

**MAB122 ALGEBRA AND ANALYTIC GEOMETRY**

Building upon the foundations established in MAB120 or
Senior Maths C, this unit addresses the significant role of
mathematical modelling using vectors, matrices and

**multivariable calculus for the description and resolution of
simple and complex problems relevant in the real world. The
formulation and solution of such problems is supported by
appropriate advanced mathematical concepts used for
function approximation, differentiation and integration.
Undertaking this unit will allow you to develop your problem
solving skills, especially in the context of advanced
mathematical techniques applied to vectors, matrices and
multivariable functions used to model real world problems.

**Assumed knowledge:** Grade of at least Sound
Achievement in Senior Mathematics C (or equivalent)

**Equivalents:** MAB112, MAB127, MAB132 **Credit points:**
12 **Contact hours:** 4 per week **Campus:** Gardens Point
**Teaching period:** 2011 SEM-1, 2011 SEM-2 and 2011 SUM

**NQB201 PLANET EARTH**

Earth Science impacts every aspect of modern life. Hence,
the concepts of Earth Science are fundamental not only to
the field of Geology, but also to Environmental Science,
natural resource management, civil engineering and society at large. Planet Earth provides an introduction to Earth Science, including earth materials, geologic history, geological process at the Earth’s surface, and the complex interplay between the lithosphere, atmosphere, hydrosphere and biosphere through geologic time. Thus, Planet Earth is a foundation unit for further studies in Geology and Environmental Science and also serves as a broad introduction to the world we live on.

Equivalents: NRB230  Credit points: 12  Contact hours: 4 per week  Campus: Gardens Point  Teaching period: 2011 SEM-2

NQB302 EARTH SURFACE SYSTEMS
Understanding long and short term climate and environmental change is now recognised as crucial to the interpretation of our biotic, geomorphic and cultural landscapes. To fully understand environment change it is important to recognise the interconnectedness between the atmosphere, hydrosphere, lithosphere, biosphere and humanity’s place within these spheres over various temporal and spatial scales. Developing knowledge of past and present climate change and landscaping processes helps to predict future process pathways for natural resource management, civil engineering, risk analysis, and impact assessment in the context of both natural and anthropogenic induced change.

Assumed knowledge: NQB201 is assumed knowledge.

Equivalents: NRB301  Credit points: 12  Contact hours: 4 per week  Campus: Gardens Point  Teaching period: 2011 SEM-1

NQB311 MINERALOGY
Minerals are the building blocks of rocks which comprise the solid Earth. The study of minerals is essential for understanding the structure and composition of the Earth and the detailed processes of the rock cycle. Mineralogy forms the basis for petrology (the study of the genesis of rocks) and geochemistry, and is thus essential for Geoscience. The unit may also be of interest to chemists.

Equivalents: NRB333  Credit points: 12  Contact hours: 4 per week  Campus: Gardens Point  Teaching period: 2011 SEM-1

NQB314 SEDIMENTARY GEOLOGY
This unit provides students with an introduction to sedimentology; both sediments and sedimentary rocks. The unit focuses on the link between the range of features preserved in sedimentary rocks and what those features tell us about sedimentary processes, depositional environments and the burial history of the rocks. The sedimentological processes and depositional environments observed in the modern world are discussed and used as a foundation for interpreting the evidence preserved in the ancient sedimentary rock record, in turn revealing much about earth processes in geologic history.

Assumed knowledge: NQB201 is assumed knowledge.

Equivalents: NRB331  Credit points: 12  Contact hours: 4 per week  Campus: Gardens Point  Teaching period: 2011 SEM-1

NQB321 ECOLOGY
Ecology is the study of the factors that influence the distribution and abundance of organisms. Ecology deals with basic properties of individuals and the emergent properties of collections of individuals that form populations and the dynamics of these populations and their interactions with populations of other species. An understanding of basic ecological principles is central to managing species and ecosystems. This unit provides a broad theoretical background in the major concepts of plant and animal ecology. It serves the dual role of providing a thorough grounding in ecology for students from all faculties; and laying the conceptual foundation for later subjects in the ecology and environmental science.

Prerequisites: SCB110 or SCB112

Equivalents: NRB311  Credit points: 12  Contact hours: 4 per week  Campus: Gardens Point  Teaching period: 2011 SEM-1

NQB322 INVERTEBRATE BIOLOGY
Anyone pursuing a career as an ecologist, environmental biologist, or teacher needs to be familiar with invertebrates, including their diversity and how they function. Because approximately 90% of all invertebrates are arthropods, this unit focuses on this dominant phylum, which includes all the animals with jointed exoskeletons (the insects, crabs, spiders, millipedes and more). The aim is to provide you with an overview of arthropod diversity, structure and function, as a basis for exploring the role of arthropods in natural and human-modified systems.

Equivalents: NRB370  Credit points: 12  Contact hours: 4 per week  Campus: Gardens Point  Teaching period: 2011 SEM-1
This unit will provide an understanding and appreciation of plants by taking an evolutionary approach to the study of major plant groups. Content includes life cycles, morphology, adaptations for survival in varied environments, economic and ecological aspects of various groups as they relate to humans, phylogeny and diversity of major groups. This unit will encourage careful observation, curiosity and thinking about plants. The practicals will provide an opportunity to observe and understand form, function and diversity and will emphasise development of skills in plant systematics and identification, with special emphasis on Australian flora.

**Prerequisites:** SCB112  
**Equivalents:** NRB371  
**Credit points:** 12  
**Contact hours:** 4 per week  
**Campus:** Gardens Point  
**Teaching period:** 2011 SEM-1

**NQB403 SOILS AND THE ENVIRONMENT**

This unit will provide you with grounding in soil science (pedology) by emphasising pedological principles, their application to environmental soil analysis and management, and knowledge of ecosystem function of soil in a changing environment. This one of the most critical resources to consider within the context of climate change and is an essential component of environmental scientific studies. It also compliments and provides a basis for further biogeoscientific studies in the SC01 degree. Your knowledge of past and present soil will help you to predict process pathways and outcomes for the purposes of environmental planning and management, risk analysis, and impact assessment involving soils. It also contributes to your understanding of field survey and interpretation of soil phenomena in ecological, geological and environmental contexts.

**Prerequisites:** NQB302 or NRB301 or (ENB272 and ENB274)  
**Credit points:** 12  
**Contact hours:** 4 per week  
**Campus:** Gardens Point  
**Teaching period:** 2011 SEM-2

**NQB411 PETROLOGY OF IGNEOUS AND METAMORPHIC ROCKS**

Igneous and metamorphic rocks compose the bulk of the Earth. Understanding what these rocks are and how they form is an essential part of the study of geology and is fundamental to a wide range of higher level units. This unit builds upon the knowledge and skills acquired in the prerequisite unit (NQB311 Mineralogy) by focusing on the description, classification and origins of igneous and metamorphic rocks. This unit aims to allow you to develop the theoretical and practical skills necessary to describe, classify and interpret igneous and metamorphic rocks.

**Prerequisites:** NQB311 or NRB333  
**Equivalents:** NRB436  
**Credit points:** 12  
**Contact hours:** 4 per week  
**Campus:** Gardens Point  
**Teaching period:** 2011 SEM-2

**NQB412 STRUCTURAL GEOLOGY AND FIELD METHODS**

Structural geology, the deformation of earth materials, is one of the main elements in the core curriculum in geology. It is also essential to other subdisciplines of geology, such as foundation engineering and petroleum and mineral exploration. Geologists need to be able to describe and map structures, to understand the mechanical principles of rock deformation, and to be able to manipulate and calculate structural data. This unit fosters the skill of critical three- and four-dimensional analysis that usually sets geoscientists apart from other scientists and technologists.

**Prerequisites:** NQB314 or NRB331  
**Equivalents:** NRB434  
**Credit points:** 12  
**Contact hours:** 4 per week  
**Campus:** Gardens Point  
**Teaching period:** 2011 SEM-2

**NQB421 EXPERIMENTAL DESIGN**

This unit deals with the theory and practice of experimental design and the quantitative approaches used for the investigation of ecological and environmental questions discussed in the prerequisite unit Ecology and developed in subsequent units in the ecology and environmental science majors.

The aims of this unit are to provide an introduction to the logic of experimentation and experimental design; build a practical extension on the theoretical basis of statistics obtained in other units using experimental situations commonly met in ecology and environmental science; and apply methods used to quantify the ecological attributes of populations and communities in experimental field situations.

**Prerequisites:** MAB101 or MAB104 or MAB105, and NQB321 or NRB311  
**Equivalents:** NRB412  
**Credit points:** 12  
**Contact hours:** 4 per week  
**Campus:** Gardens Point  
**Teaching period:** 2011 SEM-2

**NQB422 GENETICS AND EVOLUTION**

A detailed understanding of the principles of genetics is required to fully comprehend modern developments in ecology and evolutionary theory. These principles will be taken forward to develop a clear understanding of the mechanisms and processes that drive evolution in natural populations. The unit provides the foundation for further studies in population and conservation biology. The aim of the unit is to provide a detailed understanding of the principles of genetics and their application to studies of evolution and ecology.

**Prerequisites:** SCB112  
**Equivalents:** NRB410  
**Credit points:** 12  
**Contact hours:** 4 per week  
**Campus:** Gardens Point  
**Teaching period:** 2011 SEM-2

**NQB501 ENVIRONMENTAL MODELLING**

The capacity for management of complex environmental problems such as climate change, now and in the future, will rely on the capacity of environmental managers to create, interpret and critically analyse models of environmental
systems. Mathematical model building promotes the capacity to understand the interdependent relationships that characterise environmental systems and also provides a quantitative foundation for informed environmental management.

**Prerequisites:** NQB412 or NQB421  
**Assumed knowledge:** 48 credit points of second level science units is assumed knowledge.  
**Equivalents:** NRB500  
**Credit points:** 12  
**Contact hours:** 4 per week  
**Campus:** Gardens Point  
**Teaching period:** 2011 SEM-1

**NQB502 FIELD METHODS IN NATURAL RESOURCE SCIENCES**

Field experience is an essential part of the professional training of geologists, environmental scientists, ecologists, and natural resource specialists in general. The theory and practice of methods to interpret, measure, map, and monitor important natural resource features and characteristics are essential to the study of geological, ecological and environmental systems. Methods of survey, mapping and interpretation are necessary skills for resource assessment, geo-exploration, environmental impact assessment, land evaluation, baseline studies, and ecological investigations. There are varying emphases on these outcomes depending on the type of field survey you undertake in this unit.

**Prerequisites:** (NQB321 or NQB411) and (NQB302 or NQB412)  
**Assumed knowledge:** 36 credit points of second level science units in selected major is assumed knowledge. NQB302 and NQB403 for Env Sc, NQB321 for Ecol, NQB411 and NQB412 for Geosc  
**Equivalents:** NRB511  
**Credit points:** 12  
**Contact hours:** 4 per week  
**Campus:** Gardens Point  
**Teaching period:** 2011 SEM-1

**NQB513 GEOPHYSICS**

Geophysics is an integral branch of geology, providing many of the most useful methods of imaging the subsurface of the earth. These methodologies are useful in disciplines as diverse as plate tectonics, oil and mineral exploration, hydrogeology, environmental geology, engineering geology, and seismic hazards. The aim of the unit is to provide you with the core knowledge and skills of geophysical measurement, processing of data, and geological interpretation of geophysical data.

**Prerequisites:** (NQB201 or NRB230) and (NQB412 or NRB434)  
**Equivalents:** NRB534  
**Credit points:** 12  
**Contact hours:** 4 per week  
**Campus:** Gardens Point  
**Teaching period:** 2011 SEM-2

**NQB521 POPULATION GENETICS AND MOLECULAR ECOLOGY**

This unit is an extension of NQB422 Genetics and Evolution. Topics include the genetic structure of populations and processes of evolutionary change; natural selection, inbreeding and adaptation, species and speciation theory; ecological genetics; the genetics of behaviour.

**Prerequisites:** NQB422  
**Antirequisites:** NRB510  
**Credit points:** 12  
**Contact hours:** 4 per week  
**Campus:** Gardens Point  
**Teaching period:** 2011 SEM-1

**NQB523 POPULATION MANAGEMENT**

This unit develops the theoretical treatment of populations as a unit of study and integrates the content of previous ecology units into approaches for the management of biological populations. The unit focuses on those interactions that are most relevant to pest control, but the unit is also of fundamental importance to harvesting and conservation biology.

**Prerequisites:** NQB321, NQB421  
**Antirequisites:** NRB511  
**Credit points:** 12  
**Contact hours:** 4 per week  
**Campus:** Gardens Point  
**Teaching period:** 2011 SEM-1

**NQB601 SUSTAINABLE ENVIRONMENTAL MANAGEMENT**

This unit provides background and details on global sustainable management issues and practices with a focus on Australia. It is therefore an important unit of study for any graduate wishing to pursue a career in environmental science who shares an abiding interest in the state and sustainable management of our planet. The unit compliments other advanced units dealing with environmental science and its practice. The aim of this unit is to gain deeper understanding of a variety of current issues in environmental management; their multi-disciplinary nature, the science behind them, and the ways of achieving sustainable environmental management in scientific and practicable ways.

**Assumed knowledge:** 48 credit points of second level science units is assumed knowledge.  
**Equivalents:** NRB600  
**Credit points:** 12  
**Contact hours:** 4 per week  
**Campus:** Gardens Point  
**Teaching period:** 2011 SEM-2

**NQB602 ENVIRONMENTAL CHEMISTRY**

Focusing on fundamental environmental principles, this unit provides essential material for students majoring or co-majoring in any of several disciplines: earth science, environmental science, ecology, biodiversity and chemistry. Material covered includes: basic chemical principles underlying global, regional and local environmental processes; behaviour of natural and synthetic chemical species in the environment and biota (basic toxicology); and basic concepts in applied biogeochemistry, bioremediation and bioleaching. The unit also fosters development of practical and theoretical environmental monitoring skills using physicochemical parameters. Such monitoring data is used to promote informed environmental management through facilitation of scientific hypotheses testing about the environment; supply of data for model validation; testing compliance with regulations and guidelines; and providing data for environmental impact and risk assessment.
Prerequisites: PCB140 or PCB142 or SCB111 or SCB121
Assumed knowledge: 72 credit points of Science and/or Health units is assumed knowledge
Equivalents: NRB440Credit points: 12Contact hours: 4 per weekCampus: Gardens PointTeaching period: 2011 SEM-2

NQB614 GROUNDWATER SYSTEMS
This unit focuses on the origin, occurrence and movement of groundwater; aquifer properties; chemistry and quality of groundwater; exploration methods for groundwater; drilling methods and well testing equipment; assessment of groundwater problems, both supply and quality; and introduction to modelling of groundwater systems. Groundwater resources of Australia are covered and current issues. Lectures are supported by desktop exercises. Students will obtain practical experience with pump tests and computer modelling. There is interaction with government and private sector hydrogeologists, and a field site visit for hands-on well testing.
Prerequisites: NQB302 or NRB301 or ENB383
Equivalents: NRB633Credit points: 12Contact hours: 4 per weekCampus: Gardens PointTeaching period: 2011 SEM-2

NQB615 GEOCHEMISTRY
Through lecture, discussion and problem solving exercises, this unit introduces the application of geochemistry, phase equilibria, and thermodynamics to demonstrate the origin and evolution of igneous and metamorphic rocks. Problemsolving exercises synthesise field, petrographic and geochemical data to develop quantitative petrogenetic models and enhance critical thinking and written communication skills. Field study is an important component of this unit.
Equivalents: NRB536Credit points: 12Contact hours: 4 per weekCampus: Gardens PointTeaching period: 2011 SEM-1

NQB622 CONSERVATION BIOLOGY
Conservation Biology is the application of ecological theory and principles to the problem of the maintenance of viable populations of rare, threatened or endangered species, or ecological systems. The unit integrates ecological and genetic material covered in earlier units to provide an understanding of factors that enable the maintenance or enhancement of populations. The unit examines biodiversity and its determinants, the process of extinction, population viability analysis and the diagnosis and treatment of population declines, habitat fragmentation, metapopulation processes and the design of natural reserves, and conservation genetics.
Prerequisites: NQB321 or NRB311, and NQB422 or NRB410
Equivalents: NRB611Credit points: 12Contact hours: 4 per weekCampus: Gardens PointTeaching period: 2011 SEM-2

NQB623 ECOLOGICAL SYSTEMS
The science of ecology examines the distribution and abundance of organisms at a number of organisational levels from individuals to landscapes. At each of these levels there are separate and distinct attributes that require investigation and explanation. One important level of organisation is the ecosystem. An essential component of ecological studies is to examine these ecological systems and how they are shaped by the interaction between their constituent species and the physical environment. This unit builds on aspects animal and plant diversity and ecology covered in previous units to examine how the interrelationships between key physical, ecological, biological and geological processes shape ecological systems. The aim of this unit is to develop an understanding of the structure and function of terrestrial and aquatic ecosystems, and especially the processes that have shaped Australia’s major ecological systems.
Prerequisites: NQB321 or NRB311
Credit points: 12
Contact hours: 4 per week
Campus: Gardens Point
Teaching period: 2011 SEM-2

PQB250 MECHANICS AND ELECTROMAGNETISM
The experimental means by which we have arrived at our modern understanding of the universe is central to the scientific philosophy. Students of physics and physics related areas need to possess skills in quantitative handling, processing, communication and evaluation of data. Higher level studies in specialised areas of Physics require a familiarity with a range of fundamental topics in Physics and an ability to apply critical thinking and advanced mathematical techniques to the analysis and solution of Physical problems. This first-level unit lays the foundation for these higher level studies by introducing the fundamental topic areas of mechanics and electromagnetism.
Assumed knowledge: Senior Maths B is assumed knowledge.
Credit points: 12
Contact hours: 4.5 hours per week
Campus: Gardens Point
Teaching period: 2011 SEM-2

PQB251 WAVES AND OPTICS
Wave phenomena are used to describe and explain many of the physical processes in the universe. Sound and light are the most commonly experienced of these and have far-reaching human applications, including their use as experimental tools for science. The study of wave phenomena has led to the development of quantum mechanics, a cornerstone of modern scientific thought. This first-level unit lays the foundation for discussion of wave phenomena in higher level studies, but will also be relevant to those not considering progressing to a Physics major but wishing to understand more of the Physical world in which we live.
Assumed knowledge: Senior Maths B is assumed
knowledge. **Credit points:** 12  **Contact hours:** 4.5 hours per week  **Campus:** Gardens Point  **Teaching period:** 2011 SEM-2

**PQB312 ANALYTICAL CHEMISTRY FOR SCIENTISTS AND TECHNOLOGISTS**

This unit addresses three vital theoretical and practical elements of analytical chemistry: quality assurance in a chemical laboratory; principles of chemical sampling; common instrumental techniques. It is a generic unit designed to address the needs and skills of students enrolled in the Chemistry major as well as other majors such as Forensic Science and double degrees in with the Chemistry major. The unit builds on the analytical chemistry concepts introduced in SCB131 Experimental Chemistry.

The aim of this unit is to provide students with principles of analytical chemistry, including some common instrumental techniques, which are firmly linked to the theory and practice of the discipline in a modern, working laboratory.  

**Prerequisites:** SCB131  **Equivalents:** PCB414  **Credit points:** 12  **Contact hours:** 4.5 per week  **Campus:** Gardens Point  **Teaching period:** 2011 SEM-1 and 2011 SEM-2

**PQB331 STRUCTURE AND BONDING**

This unit provides detailed coverage of the theories of bonding in organic, inorganic and coordination compounds including orbital hybridisation, valence bond theory, coordination theory and crystal field theory. The cause and effect relationships between bonding and structure are developed leading to an understanding of structural variability, chirality, and other modes of isomerism for a broad range of chemical compounds. An introduction to molecular symmetry, which is central to the study of molecular geometry and shape, also provides the background for later studies in spectroscopy. Lectures are complemented by 7 laboratory experiments and 4 hands-on style workshops.

**Prerequisites:** SCB121 and SCB131  **Antirequisites:** PCB334, PCB354  **Credit points:** 12  **Contact hours:** 4.5 per week  **Campus:** Gardens Point  **Teaching period:** 2011 SEM-1

**PQB350 THERMODYNAMICS OF SOLIDS AND GASES**

This unit provides students with an overview of the basic thermodynamic principles that describe how heat and other forms of energy are transported through matter in its solid and gaseous states. Through integrated lecture and practical classes, it provides students with a foundation for more advanced studies later in areas such as condensed matter physics and quantum mechanics. The three areas of study in this unit; thermodynamics, solid state physics and statistical physics; are essential core topics if students are considering postgraduate study in the physical sciences or professional employment as a physicist.

**Prerequisites:** (PQB250 or PCB250), and (MAB111 or MAB120 or MAB121)  **Corequisites:** MAB311  **Assumed knowledge:** Students should enrol in MAB311 in the same semester if not already completed  **Equivalents:** PCB562  **Credit points:** 12  **Contact hours:** 4 per week  **Campus:** Gardens Point  **Teaching period:** 2011 SEM-1

**PQB401 REACTION KINETICS, THERMODYNAMICS AND MECHANISMS**

Physical Chemistry is a discipline of chemistry in which the influences of physical factors on chemical reactions are described and quantified. The fundamental factors that govern the extents (equilibria) and rates (kinetics) of chemical reactions are usually the realm of Physical Chemistry. This unit illustrates this basic science with applications of these principles to actual reaction types that are expounded as case studies of the principles underlying the Chemistry. In addition, all students of chemistry need an understanding of the concepts of acids and bases in their widest sense. This unit provides the tools that chemists use to understand how and why molecules react. The aim of this unit is to demonstrate how reactions and their equilibria and rates can be described and quantified, and to understand by studying key examples, the fundamental factors that govern the outcomes of chemical reactions.

**Prerequisites:** PQB331  **Antirequisites:** PCB354, PCB405  **Credit points:** 12  **Contact hours:** 4.5 per week  **Campus:** Gardens Point  **Teaching period:** 2011 SEM-2

**PQB442 CHEMICAL SPECTROSCOPY**

Spectroscopic techniques are now widespread in scientific laboratories. An appreciation of both the principles and practice of spectroscopy is essential for those contemplating a career in chemistry. The use of spectroscopic methods to elucidate molecular structure provides an excellent vehicle for training in the scientific method, particularly the logical application of experimental data to deduce the solution to a complex problem. Whilst the fundamental theoretical concepts will be dealt with in the early part of the unit, later emphasis will be on developing practical skills in problem solving, a skill of value to all fields of scientific and technological endeavour.

**Prerequisites:** PQB331  **Equivalents:** PCB444  **Credit points:** 12  **Contact hours:** 4 per week  **Campus:** Gardens Point  **Teaching period:** 2011 SEM-2

**PQB450 ENERGY, FIELDS AND RADIATION**

The common theme of the topics covered in this unit is fields, the energy contained in these fields and the transfer of this energy. This theme is addressed in the specific topics of classical mechanics, electromagnetism and radiation physics. The classical mechanics and electromagnetism components build on material presented in introductory units and apply this to complex real world problems. The
unit is designed to prepare students for more advanced studies in these areas but the unit will also provide a useful background for students undertaking a comajor in Physics or preparing for a career in secondary education.  

**Prerequisites:** PQB250 or PCB250, and MAB311  
**Equivalents:** PCB362  
**Credit points:** 12  
**Contact hours:** 4 per week  
**Campus:** Gardens Point  
**Teaching period:** 2011 SEM-2

**PQB51 ELECTRONICS AND INSTRUMENTATION**

Instrumentation plays an increasingly important role in the life of a scientist. This unit is designed to give the student a working knowledge in instrumentations and the principles of circuit theory and electronics that underlie instrumentation. It is offered at this stage of the program since it relies on work developed in the earlier advanced-level units and provides a basis for experimental work in later units.  

**Prerequisites:** PQB250 or PCB250  
**Antirequisites:**  
**PCB361, PCB460**  
**Credit points:** 12  
**Contact hours:** 4 per week  
**Campus:** Gardens Point  
**Teaching period:** 2011 SEM-2

**PQB502 ADVANCED PHYSICAL CHEMISTRY**

A Chemistry graduate in today’s highly technological world requires knowledge of the principles that govern the behaviour of solids, liquids, gases, and mixtures thereof. This leads to an appreciation of how fundamental physical chemical principles determine the bulk properties of materials and how the chemical nature of interfaces govern chemical reactions in many important applications. This unit is placed appropriately in fifth semester, following the second year units that provide the basic principles, language and tools of chemistry.  

**Prerequisites:** PQB401  
**Credit points:** 12  
**Contact hours:** 4 per week  
**Campus:** Gardens Point  
**Teaching period:** 2011 SEM-1

**PQB513 INSTRUMENTAL ANALYSIS**

TBA  
**Prerequisites:** PQB312 or PCB414  
**Equivalents:**  
**PCB514**  
**Credit points:** 12  
**Contact hours:** 4 per week  
**Campus:** Gardens Point  
**Teaching period:** 2011 SEM-1

**PQB531 ORGANIC MECHANISMS AND SYNTHESIS**

This unit deals with organic reaction mechanisms and their application in organic synthesis. Topics in mechanisms include: structural and electronic effects that govern reactivity of organic molecules; major classes of mechanisms including elimination reactions, nucleophilic additions to carbonyl compounds, nucleophilic acyl substitution, electrophilic addition to alkenes and electrophilic substitution of aromatics. Topics in synthesis include the principles of organic synthesis design using the retrosynthetic approach; carbon-carbon bond formation to build the major functional group classes; and the use of protecting and activating groups.  

**Prerequisites:** PQB401, PQB442  
**Antirequisites:**  
**PQB554**  
**Credit points:** 12  
**Contact hours:** 4 per week  
**Campus:** Gardens Point  
**Teaching period:** 2011 SEM-1

**PQB550 QUANTUM AND CONDENSED MATTER PHYSICS**

TBA  
**Prerequisites:** PQB350 and (MAB134 or MAB311)  
**Equivalents:** PCB561  
**Credit points:** 12  
**Contact hours:** 4 per week  
**Campus:** Gardens Point  
**Teaching period:** 2011 SEM-1

**PQB551 PHYSICAL ANALYTICAL TECHNIQUES**

Modern methods of physical analysis are an important tool for the physical scientist. This unit provides an introduction to the physical principles and applications in three fields of analysis: X-ray diffraction, analytical electron microscopy and physical spectroscopy. Each of these topics encompasses a variety of measurement techniques. The methodologies presented have wide application in a number of areas of science and technology including nanotechnology and materials research and development. Lectures are supplemented by laboratory practicals to enable students to gain familiarity and experience with the instrumentation.  

**Prerequisites:** (PQB350 or PCB462) and (MAB112 or MAB122)  
**Equivalents:** PCB562  
**Credit points:** 12  
**Contact hours:** 4 per week  
**Campus:** Gardens Point  
**Teaching period:** 2011 SEM-1

**PQB584 FORENSIC PHYSICAL EVIDENCE**

This unit provides a theoretical and practical framework to introduce you to the physical evidence processing techniques of questioned documents and computer forensics and the forensic examination techniques of optical and electron microscopy. The unit will also discuss the physical and chemical structure of some common types of physical evidence (fibres, fabrics & severance, soils and physical fits) and the analytical methods used for their analysis. It is placed appropriately in the fifth semester of the course to coincide with and complement the Instrumental Analysis unit PQB513 which the core knowledge for the instrumental techniques used within the forensic analysis of various types of physical evidence.  

**Prerequisites:** PQB312, SCB384  
**Antirequisites:** PCB584  
**Credit points:** 12  
**Contact hours:** 4 per week  
**Campus:** Gardens Point  
**Teaching period:** 2011 SEM-1

**PQB631 ADVANCED INORGANIC CHEMISTRY**

Major topics covered are as follows: organometallic chemistry, including metal-carbon bonding, main group and transition metal organometallics and applications of organometallic compounds in synthetic chemistry; bioinorganic chemistry; physical methods of structure
SCB110 CHEMISTRY 1
Chemistry is the central science. It affects society as well as the individual. It is the language and principal tool of the physical sciences, the biological sciences, the health sciences and the agricultural and earth sciences. A basic knowledge of chemistry is essential to all students in these areas. Knowledge of chemistry allows a better understanding of the human body and of the environment in which we live. The aim of this unit is to introduce you to the basic concepts of general, inorganic, analytical and physical chemistry.

Antirequisites: SCB113  Credit points: 12  Contact hours: 4.5 per week  Campus: Gardens Point  Teaching period: 2011 SEM-1 and 2011 SEM-2

SCB112 CELLULAR BASIS OF LIFE
Scientists from all disciplines need an appreciation and a broad overview of the characteristics and functioning of the five groups of living organisms (bacteria, protists, fungi, plants and animals), and their interactions with the inanimate world. SCB112 Cellular Basis of Life is a first semester unit that is essential for many students undertaking courses requiring biological knowledge. Through integrated lecture and laboratory classes, this unit provides you with a foundation for later more advanced

PQB684 FORENSIC ANALYSIS
This unit provides a theoretical and practical framework for forensic analysis and toxicology. It includes topics such as nature and abuse of drugs; introduction to pharmacology and toxicology; illicit drugs and trace evidence; the application of GC, MS and IR in forensic examination; examination of trace evidence. Substantial laboratory and workshop sessions complement the theory.

Prerequisites: PQB513 or PCB514  Equivalents: PCB684  Credit points: 12  Contact hours: 5 per week  Campus: Gardens Point  Teaching period: 2011 SEM-2

PQB651 EXPERIMENTAL PHYSICS
This unit represents the culmination of the students experiences in undergraduate experimental work. The unit is offered in the final year of study to take advantage of and integrate the skills acquired in previous units. The student is given the opportunity to select three experiments to be undertaken from a series of extended experiments in the areas of physics research undertaken at QUT.

Prerequisites: PQB451 or PCB460  Equivalents: PCB661  Credit points: 12  Contact hours: 4 per week  Campus: Gardens Point  Teaching period: 2011 SEM-1 and 2011 SEM-2

SCB110 SCIENCE CONCEPTS AND GLOBAL SYSTEMS
You will undertake interdisciplinary study of the physical, geological and biological concepts relating to the origins of life; from the creation of matter and planets, to the emergence of life in all its complexity, culminating in evolution of earth ecosystems. Human influences, overlaid upon earth’s complex systems, will be examined as to their type, extent, and impact. In counterpoint, you will explore the breadth of philosophical developments underlying our search for knowledge; fundamental thoughts and ideas that span the last 2,500 years of human history. Ultimately, these concepts evolved through the development of a scientific method and we explore its workings in relation to the ongoing enterprise of human understanding.

Credit points: 12  Contact hours: 4.5 per week  Campus: Gardens Point  Teaching period: 2011 SEM-1 and 2011 SEM-2

PQB650 ADVANCED THEORETICAL PHYSICS
Advanced electromagnetism, magnetism of materials and magnetic resonance, and advanced statistical mechanics are the fundamental topics for any advanced-level Physics degree. They provide fundamental background knowledge and problem solving skills that are essential in any area of modern theoretical, experimental, and applied physics. This unit also provides you with an essential platform for further studies and research in physics and applied physics in Honours and the post-graduate level. The aim of this unit is to provide you with an advanced understanding of fundamental physical phenomena related to electromagnetism and wave propagation, quantum and statistical basis of nuclear magnetism and magnetic resonance, statistical mechanics, quantum statistics, and general statistical thermodynamics.

Prerequisites: (PQB350 or PCB462) and (PQB550 or PCB561)  Equivalents: PCB665  Credit points: 12  Contact hours: 4 per week  Campus: Gardens Point  Teaching period: 2011 SEM-2

PQB642 CHEMICAL RESEARCH
This unit addresses a selection of topics in advanced chemistry from a range of evolving areas of relevance in modern chemistry and chemical technology such as nanotechnology, drug design, free-radical chemistry and trace metal speciation in environmental and biological systems. It includes the important issue of the societal and ethical implications of the profession of chemistry.

Prerequisites: 4 Advanced Level Chemistry units  Assumed knowledge: Completion of any advanced Chemistry units is assumed knowledge  Credit points: 12  Contact hours: 4 per week  Campus: Gardens Point  Teaching period: 2011 SEM-2

QUT provides you with a foundation for later more advanced

Through integrated lecture and laboratory classes, this unit provides you with a foundation for later more advanced
studies in your course or major (eg such as medical science, biomedical science, pharmacy, optometry, biochemistry, biotechnology, microbiology, geosciences, ecology, business and education among others). The aim of this unit is to introduce you to the wide diversity of living organisms while emphasising the unity of life processes at the cellular, biochemical and biophysical levels.

**Antirequisites:** LQB182, LSB118  
**Credit points:** 12  
**Contact hours:** 4 per week  
**Campus:** Gardens Point  
**Teaching period:** 2011 SEM-1 and 2011 SEM-2

**SCB120 PLANT AND ANIMAL PHYSIOLOGY**

Regardless of which area of biology you decide to specialise in, you will need to understand the complex interactions between cells, tissues, organs and organ systems that comprise multi-cellular organisms. Although many living processes can be explained at the levels of biochemistry, biophysics and cell biology, a true understanding of complex, multicellular organisms requires integration of knowledge drawn from all of these areas, combined with the more complex physiological and structural levels you will learn about in this unit. The knowledge gained in this and other first level units provides you with the conceptual framework necessary to understand processes occurring from the cellular to the whole organism level and to higher levels of organisation.

**Prerequisites:** SCB113 or PQB105 or (SCB111 and

**SCB121 CHEMISTRY 2**

Chemistry is the central science. This is a unit of fundamental importance as it covers the background and general principles that underpin understanding in many science and health related disciplines. In this unit you will be introduced to fundamental aspects of chemistry including the nature of matter, atoms, molecules and ions. From this basis you will develop an understanding of the electronic structure of atoms, chemical bonding and molecular structure as well as the fundamentals of organic chemistry (often described as the chemistry of life). The aims of this unit are to generate an understanding of the importance of chemical bonding and molecular structure and how these factors effect the properties of organic and bioinorganic molecules; and to allow recognition of, and provide an understanding of, the nature of organic functional groups and their respective reactivity.

**Prerequisites:** (SCB111 or PCB142) . SCB111 can be studied in the same teaching period  
**Antirequisites:** PQB105 and SCB113  
**Credit points:** 12  
**Contact hours:** 4.5 per week  
**Campus:** Gardens Point  
**Teaching period:** 2011 SEM-1 and 2011 SEM-2

**SCB122 CELL AND MOLECULAR BIOLOGY**

SCB122 Cell and Molecular Biology 1 equips students with a comprehensive understanding the molecular basis of the cell. This unit expands on the basic principles and concepts relating to cell structure, function, perpetuation and specialisation introduced in SCB112 and introduces students to fundamental molecular mechanisms central to the organisation of the cell. Students will be shown how macromolecular interactions are crucial to information flow and heredity. Students are taught the relationships between chromosomes, genes and cellular function and ultimately how these may determine an organism's phenotype. This unit underpins cell biology and molecular biology units that are offered in second year Life Science units. SCB122 is also ideal for interfaculty students (eg Education, Business, Arts) who will undertake no further life science studies.

**Prerequisites:** SCB112. SCB112 can be studied in the same teaching period.  
**Antirequisites:** LSB238  
**Credit points:** 12  
**Contact hours:** 4.5 per week  
**Campus:** Gardens Point  
**Teaching period:** 2011 SEM-2

**SCB123 PHYSICAL SCIENCE APPLICATIONS**

Physics principles underpin all of the sciences and 'new technologies'. This unit adopts an investigative team-based approach to provide students with an appreciation of fundamental concepts in physical science, together with experience in the application of these concepts to a range of 'real world' problems. The unit should be taken in the first year of study as the fundamental principles introduced here will be built upon in later units in the context of each science student's major discipline area. Employers in cutting-edge industries expect science graduates to have effective strategies for problem solving, skills for collaborative work and scientific communication and research skills. This unit aims to develop these skills by applying the fundamental concepts of physical science to problems in a team environment.

**Credit points:** 12  
**Contact hours:** 4.5 per week  
**Campus:** Gardens Point  
**Teaching period:** 2011 SEM-2

**SCB131 EXPERIMENTAL CHEMISTRY**

Chemistry is the central science. A detailed study of chemistry and related disciplines requires the development of practical laboratory skills for synthesis and chemical analysis. This unit is designed specifically to develop these aspects of chemistry. This unit is a laboratory-based unit which is designed for students who intend to continue with experimental science units. The lectures complement the weekly practical sessions and teach the theory required to interpret experimental results. The aim of this unit is to develop a broad knowledge of, and the practical skills required for, scientific experiments in chemistry. The skills acquired in this unit are transferable to other practical sciences including medical science, biochemistry, molecular biology and pharmacy.

**Prerequisites:** SCB113 or PQB105 or (SCB111 and
SCB121). SCB121 can be concurrently enrolled with
SCB131  Credit points: 12  Campus: Gardens Point
Teaching period: 2011 SEM-2

SCB222 EXPLORATION OF THE UNIVERSE
This unit provides an introduction to optical observational
astronomy; instrumentation; celestial sphere and
astronomical coordinates; observations of constellations,
stars, planets, clusters and other interesting celestial
objects. The theory includes: optics of telescopes;
properties of light; determination of physical properties of
stars; nebulae; stellar spectra and classification; historical
models of the solar system; Kepler's law, gravitation;
physical geology of the planets and formation of the solar
system; phenomena of astronomical origin; brief
introduction to stars and galaxies. This course includes
practical exercises and field trips.
Credit points: 12  Contact hours: 5 per week  Campus:
Gardens Point  Teaching period: 2011 SEM-2

SCB384 FORENSIC SCIENCES - FROM CRIME SCENE
TO COURT
This unit provides an introduction to two fundamental areas
in forensic science, crime scenes and justice. Mock crime
scenes involving real life scenarios are used to provide
hands-on training on crime scene management and
examination protocols. The principles for forensic
examination of crime scenes involving fire, explosion,
murder, etc, are introduced through lectures, workshops
and practical exercises. Also an overview of the techniques
used in forensic photography, fingerprinting as well as Legal
procedures at court is presented. This unit is provided by
professional forensic practitioners with practical real life
experience being transferred to new generations. This head
start provides a unique advantage for a strong career in
forensics.
Credit points: 12  Contact hours: 4.5 per week  Campus:
Gardens Point  Teaching period: 2011 SEM-1