11.1.39A Bachelor of Commerce and Bachelor of Science (71120)

Note: (1) This course is only available to re-enrolling students.

(2) The Bachelor of Science component of this course is derived from the Bachelor of Science (70100) course.

Applicability of the general provisions

11.1.39A.1 The general provisions in 11.1.1 apply to the course.

Course structure

11.1.39A.2 The combined course for the degrees of Bachelor of Commerce and Bachelor of Science consists of units to a total value of 246 points comprising a Bachelor of Commerce component to the value of 102 points and a Bachelor of Science component to the value of 144 points.

Bachelor of Commerce component

11.1.39A.3 The Bachelor of Commerce component consists of units to a total value of 102 points comprising—

(a) Level 1 units to the value of 18 to 30 points comprising—

(i) the following units:

<table>
<thead>
<tr>
<th>Code</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT1101</td>
<td>Financial Accounting</td>
</tr>
<tr>
<td>ECON1101</td>
<td>Microeconomics: Prices and Markets</td>
</tr>
</tbody>
</table>

and

(ii) units to the value of 6 to 18 points from Group B in Table 4.2.4b (Bachelor of Commerce Level 1 options) in the UWA Business School Rules or from the Level 1 units available within the University;

and

(b) units to the value of 72 to 84 points from Table 4.2.2u (Level 2 and 3 units offered by the Faculty) in the UWA Business School Rules or from the Level 2 and 3 units available within the University including the requirements of at least one of the majors set out in UWA Business School Rules 4.2.4.10 to 4.2.4.21A.

Bachelor of Science component

Note: The Bachelor of Science component of this course is derived from the Bachelor of Science (70100) course.
11.1.39A.4 The Bachelor of Science component consists of units to a total value of 144 points comprising one of the programs set out in Rules 11.1.39A.5 to 11.1.39A.18 inclusive.

Table 11.1.39A(1)—Recognised Level 1 units for the Bachelor of Science component

All units have a value of six points unless otherwise stated.

<table>
<thead>
<tr>
<th>Unit Code</th>
<th>Unit Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT1101</td>
<td>Financial Accounting</td>
</tr>
<tr>
<td>ANTH1001</td>
<td>Being Human: Culture, Identity and Society</td>
</tr>
<tr>
<td>ANTH1002</td>
<td>Global Change, Local Responses</td>
</tr>
<tr>
<td>ARCY1001</td>
<td>Discoveries in Archaeology</td>
</tr>
<tr>
<td>BIOL1130</td>
<td>Core Concepts: Frontiers in Biology</td>
</tr>
<tr>
<td>BIOL1131</td>
<td>Plant and Animal Biology</td>
</tr>
<tr>
<td>CHEM1001</td>
<td>Chemistry—Properties and Energetics</td>
</tr>
<tr>
<td>CHEM1002</td>
<td>Chemistry—Structure and Reactivity</td>
</tr>
<tr>
<td>CHEM1003</td>
<td>Introductory Chemistry</td>
</tr>
<tr>
<td>CHEM1004</td>
<td>Biological Chemistry</td>
</tr>
<tr>
<td>EART1104</td>
<td>Introduction to Geology</td>
</tr>
<tr>
<td>EART1105</td>
<td>The Dynamic Planet</td>
</tr>
<tr>
<td>EART1108</td>
<td>Globalisation, Environment and Development</td>
</tr>
<tr>
<td>ECON1102</td>
<td>Macroeconomics: Money and Finance</td>
</tr>
<tr>
<td>ECON1120</td>
<td>Environmental Economics 1</td>
</tr>
<tr>
<td>ENVE1601</td>
<td>Environmental Systems Engineering</td>
</tr>
<tr>
<td>MATH1001</td>
<td>Mathematical Methods 1</td>
</tr>
<tr>
<td>MATH1002</td>
<td>Mathematical Methods 2</td>
</tr>
<tr>
<td>MATH1025</td>
<td>Multivariable Calculus and Matrix Methods</td>
</tr>
<tr>
<td>MATH1711</td>
<td>Introductory Mathematics Specialist</td>
</tr>
<tr>
<td>MATH1035</td>
<td>Calculus and Matrices</td>
</tr>
</tbody>
</table>
The Agricultural Economics program consists of units to a total value of 144 points comprising—

(a) all units in Table 11.1.39A(2) [Combined Course (71120)—Bachelor of Science (Agricultural Economics) core units]—132 points

and

(b) (i) subject to (2) and (3), units to a maximum value of 12 points chosen from Table 11.1.39A(1) (Recognised Level 1 units for the Bachelor of Science component);

and

(ii) units to a maximum value of 12 points from one or two units from Group A in Table 11.1.39A(3) [Combined Course (71120)—Bachelor of Science (Agricultural Economics) options].

6 or 12 points
(iii) **units to a maximum value of 12 points** (d) **one or two units** from Group B in Table 11.1.39A(3) [Combined Course (71120)—Bachelor of Science (Agricultural Economics) options]—6 or 12 points.

(2) Students who commence the course without a scaled mark of 50 or higher in WACE Chemistry 3A/3B or TEE Chemistry must complete CHEM1003 Introductory Chemistry.

(3) Students who commence the course with WACE Mathematics 2C/2D or TEE Discrete Mathematics only must complete MATH1050 Introductory Calculus, MATH1701 Introductory Mathematics Foundations.

### Table 11.1.39A(2)—Combined Course (71120)—Bachelor of Science (Agricultural Economics) core units

All units have a value of six points unless otherwise stated.

#### Level 1

<table>
<thead>
<tr>
<th>BIOL1130</th>
<th>Core Concepts: Frontiers in Biology</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL1131</td>
<td>Plant and Animal Biology</td>
</tr>
<tr>
<td>EART1105</td>
<td>The Dynamic Planet</td>
</tr>
<tr>
<td>EART1108</td>
<td>Globalisation, Environment and Development</td>
</tr>
</tbody>
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<table>
<thead>
<tr>
<th>ECON1102</th>
<th>Macroeconomics: Money and Finance</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON1101</td>
<td>Microeconomics: Prices and Markets</td>
</tr>
<tr>
<td>ECON1120</td>
<td>Environmental Economics I</td>
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</tbody>
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<table>
<thead>
<tr>
<th>SCIE1103</th>
<th>Science, Society and Communication</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCIE1104</td>
<td>Science, Society and Data Analysis</td>
</tr>
</tbody>
</table>

#### Level 2

<table>
<thead>
<tr>
<th>COMM2210</th>
<th>Science and Its Communication—Peer-to-Peer¹</th>
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<tr>
<th>ECON2224</th>
<th>Environmental Economics 2</th>
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</thead>
<tbody>
<tr>
<td>ECON2233</td>
<td>Microeconomics: Policy and Applications</td>
</tr>
</tbody>
</table>

| PLNG2203 | Environmental Policy and Planning         |
Level 3

ECON3300 Agricultural Economics and Marketing
ECON3323 Business and the Environment
SCIE3366 Project and Risk Management
SCIE3367 Decision Tools for Natural Resource Management

Level 4

SCIE4501 FNAS Research Thesis Part 1
SCIE4502 FNAS Research Thesis Part 2
SCIE4503 FNAS Research Thesis Part 3
SCIE4504 FNAS Research Thesis Part 4
AGRI4402 Agricultural Economics
SCIE4402 Data Management and Analysis in the Natural Sciences
ENVT4402 Analysis for Natural Resource Management
ECON5510 Applied Demand and Production Analysis

Table 11.1.39A(3)—Combined Course (71120)—Bachelor of Science (Agricultural Economics) options

All units have a value of six points unless otherwise stated.

Group A

EART2222 Geomorphology and Soils
PLNT2201 Plant Physiology: Plants in Action
ANIM2207 Animal Function and Structure
ENVT2251 Environmental Hydrology

Group B

ANIM3306 Clean, Green and Ethical Animal Production
EART3338 Land Use and Management
EART3360 Soil-Plant Interactions
Agricultural Science (PG-AGSCI)

Course structure

11.1.39A.5A(1) The Bachelor of Science (Agricultural Science) component consists of units to a total value of 144 points comprising—

(a) all units in Table 11.1.39A(4)a [Combined Course (71120)—Bachelor of Science (Agricultural Science) core units]—120 points

and

(b) (i) subject to (2) and (3), units to a maximum value of 12 points from Table 11.1.39A(1) (Recognised Level 1 units for the Bachelor of Science component);

and

(c) units to a maximum value of 24 points (ii) units to a maximum value of 12 points from Table 11.1.39A(4)b [Combined Course (71120)—Bachelor of Science (Agricultural Science) options].

(2) Students who commence the course without a scaled mark of 50 or higher in WACE Chemistry 3A/3B or TEE Chemistry must complete CHEM1003 Introductory Chemistry.

(3) Students who commence the course with WACE Mathematics 2C/2D or TEE Discrete Mathematics only must complete MATH1050 Introductory Calculus/MATH1701 Introductory Mathematics Foundations.

Table 11.1.39A(4)—Combined Course (71120)—Bachelor of Science (Agricultural Science) core units

All units have a value of six points unless otherwise stated.

Level 1

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<thead>
<tr>
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<th>Title</th>
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<th>Font</th>
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<tbody>
<tr>
<td>BIOL1130</td>
<td>Core Concepts Frontiers in Biology</td>
<td></td>
<td>Bold</td>
</tr>
<tr>
<td>BIOL1131</td>
<td>Plant and Animal Biology</td>
<td></td>
<td>Bold</td>
</tr>
<tr>
<td>EART1105</td>
<td>The Dynamic Planet</td>
<td></td>
<td>Bold</td>
</tr>
<tr>
<td>EART1108</td>
<td>Globalisation, Environment and Development</td>
<td></td>
<td>Bold</td>
</tr>
</tbody>
</table>
Table 11.1.39A(4)b—Combined Course (71120)—Bachelor of Science (Agricultural Science) options

All units have a value of six points unless otherwise stated.
Animal Science (PG-ANSCI)

Course structure

11.1.39A.6(1) The Animal Science program consists of units to a total value of 144 points comprising—

(a) all units in Table 11.1.39A(5) [Combined Course (71120)—Bachelor of Science (Animal Science) core units]—108 points

and

(b) (i) subject to (2) and (3), units to a maximum value of 12 points from Table 11.1.39A(1) (Recognised Level 1 units for the Bachelor of Science component);
(c) one or two units (ii) units to a maximum value of 12 points from Group A in Table 11.1.39A(6) [Combined Course (71120)—Bachelor of Science (Animal Science) options] —6 or 12 points

and

(d) at least two units from Group B in Table 11.1.39A(6) [Combined Course (71120)—Bachelor of Science (Animal Science) options] —at least 12 points.

(2) Students who commence the course without a scaled mark of 50 or higher in WACE Chemistry 3A/3B or TEE Chemistry must, in addition to the requirements in (1), complete CHEM1003 Introductory Chemistry.

(3) Students who enter the course with WACE Mathematics 2C/2D or TEE Discrete Mathematics only must complete MATH1050 Introductory Calculus MATH1701 Introductory Mathematics Foundations.

Table 11.1.39A(5)—Combined Course (71120)—Bachelor of Science (Animal Science) core units

All units have a value of six points unless otherwise stated.

Level 1

<table>
<thead>
<tr>
<th>Unit</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL1130</td>
<td>Core ConceptsFrontiers in Biology</td>
</tr>
<tr>
<td>BIOL1131</td>
<td>Plant and Animal Biology</td>
</tr>
<tr>
<td>EART1105</td>
<td>The Dynamic Planet</td>
</tr>
<tr>
<td>EART1108</td>
<td>Globalisation, Environment and Development</td>
</tr>
<tr>
<td>ECON1120</td>
<td>Environmental Economics 1</td>
</tr>
<tr>
<td>SCIE1106</td>
<td>Molecular Biology of the Cell</td>
</tr>
<tr>
<td>SCIE1103</td>
<td>Science, Society and Communication</td>
</tr>
<tr>
<td>SCIE1104</td>
<td>Science, Society and Data Analysis</td>
</tr>
</tbody>
</table>

Level 2

<table>
<thead>
<tr>
<th>Unit</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANIM2207</td>
<td>Animal Function and Structure</td>
</tr>
</tbody>
</table>
Table 11.1.39A(6)—Combined Course (71120)—Bachelor of Science (Animal Science) options

All units have a value of six points unless otherwise stated.

**Group A**

- EART2222  Geomorphology and Soils
- ENVT2250  Ecology

**Group B**

- AGRI4408  Sustainable Grazing Systems
- AGRI4403  Animal Science and Technology 1
Climate Studies (PG-CLIMS)

Course structure

11.1.39A.6A(1) The Climate Studies program consists of units to a total value of 144 points comprising—

(a) all units in Table 11.1.39A(6a) [Combined Course (71120)—Bachelor of Science (Climate Studies) core units]—10820 points

and

(b) subject to (2) and (3), units to a maximum value of 12 points from Table 11.1.39A(1) (Recognised Level 1 units for the Bachelor of Science component);

and

(c) one unit from Group A in Table 11.1.39A(6b) [Combined Course (71120)—Bachelor of Science (Climate Studies) options]—6 points

and

(d) one unit from Group B in Table 11.1.39A(6b) [Combined Course (71120)—Bachelor of Science (Climate Studies) options]—6 points

and

(e) at least one unit from Group C in Table 11.1.39A(6b) [Combined Course (71120)—Bachelor of Science (Climate Studies) options]—at least 6 points

and

(f) units to a minimum value of 6 points from Group C in Table 9.2.10a [Recognised units for the Bachelor of Science (70100)].

2 Students who commence the course without a scaled mark of 50 or higher in WACE Chemistry 3A/3B or TEE Chemistry must, in addition to the requirements in (1), complete CHEM1003 Introductory Chemistry.

3 Students who commence the course with WACE Mathematics 2C/2D or TEE Discrete Mathematics only must complete MATH1050 Introductory CalculusMATH1701 Introductory Mathematics Foundations.

Table 11.1.39A(6a)—Combined Course (71120)—Bachelor of Science (Climate Studies) core units
All units have a value of six points unless otherwise stated.

**Level 1**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EART1105</td>
<td>The Dynamic Planet</td>
</tr>
<tr>
<td>ECON1120</td>
<td>Environmental Economics 1</td>
</tr>
<tr>
<td>BIOL1131</td>
<td>Plant and Animal Biology</td>
</tr>
</tbody>
</table>

**Level 2**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EART2201</td>
<td>Geographic Information Systems</td>
</tr>
<tr>
<td>ENVT2220</td>
<td>The Climate System</td>
</tr>
<tr>
<td>ENVT2221</td>
<td>Global Climate Change and Biodiversity</td>
</tr>
<tr>
<td>ENVT2250</td>
<td>Ecology</td>
</tr>
<tr>
<td>POLS2220</td>
<td>International Political Economy</td>
</tr>
</tbody>
</table>

**Level 3**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EART3320</td>
<td>Environmental Change</td>
</tr>
<tr>
<td>ENVT3361</td>
<td>Environmental Assessment</td>
</tr>
<tr>
<td>ENVT3362</td>
<td>Environmental Modelling</td>
</tr>
<tr>
<td>SCIE3366</td>
<td>Project and Risk Management</td>
</tr>
</tbody>
</table>

**Level 4**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON5511</td>
<td>Climate, Energy and Water Economy</td>
</tr>
<tr>
<td>ENVT4402</td>
<td>Analysis for Natural Resource Management</td>
</tr>
<tr>
<td>SCIE4501</td>
<td>FNAS Research Thesis Part 1</td>
</tr>
<tr>
<td>SCIE4502</td>
<td>FNAS Research Thesis Part 2</td>
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<tr>
<td>SCIE4503</td>
<td>FNAS Research Thesis Part 3</td>
</tr>
<tr>
<td>SCIE4504</td>
<td>FNAS Research Thesis Part 4</td>
</tr>
<tr>
<td>PLNG5511</td>
<td>Climate Change Policy and Planning</td>
</tr>
<tr>
<td>SCIE4402</td>
<td>Data Management and Analysis in the Natural Sciences</td>
</tr>
</tbody>
</table>
Table 11.1.39A(6b)—Combined Course (71120)—Bachelor of Science (Climate Studies)

options

All units have a value of six points unless otherwise stated.

**Group A**

- EART1104 Introduction to Geology
- EART1108 Globalisation, Environment and Development

**Group B**

- MATH1020 Calculus, Statistics and Probability
- STAT1400 Statistics for Science
- SCIE1104 Science, Society and Data Analysis

**Group C**

- ENVIT2251 Environmental Hydrology
- PLNG2203 Environmental Policy and Planning

**Conservation Biology and Management (PG-CBIMM)**

**Course structure**

11.1.39A.6B(1) The Conservation Biology and Management program consists of units to a total value of 144 points approved by the Faculty, including practical and field work prescribed by the Faculty, and comprising—

(a) all units in Table 11.1.39A(7) [Combined Course (71120)—Bachelor of Science (Conservation Biology and Management) core units]—10814 points

and

(b) subject to (2) and (3), units to a maximum value of 12 points from Table 11.1.39A(1) (Recognised Level 1 units for the Bachelor of Science component);

and

(c) at least one unit from Group A in Table 11.1.39A(8) [Combined Course (71120)—Bachelor of Science (Conservation Biology and Management) options]—at least 6 points

and
(d) units to a minimum value of **182** points from Group B in Table 11.1.39A(8) [Combined Course (71120)—Bachelor of Science (Conservation Biology and Management) options]—**128** points.

(2) Students who commence the course without a scaled mark of 50 or higher in WACE Chemistry 3A/3B or TEE Chemistry must, in addition to the requirements in (1), complete CHEM1003 Introductory Chemistry.

(3) Students who commence the course with WACE Mathematics 2C/2D or TEE Discrete Mathematics only must complete MATH1701 Introductory Mathematics Foundations, MATH1050 Introductory Calculus.

**Table 11.1.39A(7)—Combined Course (71120)—Bachelor of Science (Conservation Biology and Management) core units**

All units have a value of six points unless otherwise stated.

**Level 1**

- BIOL1130  Core Concepts: Frontiers in Biology
- BIOL1131  Plant and Animal Biology
- EART1105  The Dynamic Planet
- EART1108  Globalisation, Environment and Development
- ECON1120  Environmental Economics I
- SCIE1104  Science, Society and Data Analysis
- SCIE1106  Molecular Biology of the Cell

**Level 2**

- BIOL2261  Conservation Biology
- EART2201  Geographic Information Systems
- GENE2250  Principles of Inheritance
- ENVT2221  Global Climate Change and Biodiversity
- ENVT2250  Ecology

**Level 3**

- ANIM3353  Wildlife Conservation and Management
BIOL3360 Saving Endangered Species
SCIE3366 Project and Risk Management
SCIE3367 Decision Tools for Natural Resource Management

Level 4

SCIE4501 FNAS Research Thesis Part 1
SCIE4502 FNAS Research Thesis Part 2
SCIE4503 FNAS Research Thesis Part 3
SCIE4504 FNAS Research Thesis Part 4
SCIE4402 Data Management and Analysis in the Natural Sciences

Table 11.1.39A(8)—Combined Course (71120)—Bachelor of Science (Conservation Biology and Management) options

All units have a value of six points unless otherwise stated.

Group A

PLNG2203 Environmental Policy and Planning
PLNT2204 Plant Diversity and Conservation

Group B

ANIM3361 Animal Populations
ANIM3362 Evolutionary Processes
ENVT3360 Ecosystem Restoration
PLNT3306 Australian Vegetation
ENVT3363 Ecological Processes

Environmental and Natural Resource Economics (PG-ENREC)

Course structure

11.1.39A.7(1) The Environmental and Natural Resource Economics program consists of units to a total value of 144 points comprising—

(a) all units in Table 11.1.39A(9) [Combined Course (71120)—Bachelor of Science (Environmental and Natural Resource Economics) core units]—126 points
(b) subject to (2) and (3), units to a maximum value of 12 points from Table 11.1.39A(1) (Recognised Level 1 units for the Bachelor of Science component);

and

(c) one or two units from Table 11.1.39A(10) [Combined Course (71120)—Bachelor of Science (Environmental and Natural Resource Economics) options]—6 or 12 points.

(2) Students who commence the course without a scaled mark of 50 or higher in WACE Chemistry 3A/3B or TEE Chemistry must, in addition to the requirements in (1), complete CHEM1003 Introductory Chemistry.

(3) Students who commence the course with WACE Mathematics 2C/2D or TEE Discrete Mathematics only must complete MATH1050 Introductory Calculus MATH1701 Introductory Mathematics Foundations.

Table 11.1.39A(9)—Combined Course (71120)—Bachelor of Science (Environmental and Natural Resource Economics) core units

All units have a value of six points unless otherwise stated.

Level 1

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL1130</td>
<td>Core Concepts: Frontiers in Biology</td>
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<tr>
<td>BIOL1131</td>
<td>Plant and Animal Biology</td>
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<td>The Dynamic Planet</td>
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<td>EART1108</td>
<td>Globalisation, Environment and Development</td>
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</table>

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<th>Title</th>
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</thead>
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</tr>
<tr>
<td>ECON1102</td>
<td>Macroeconomics: Money and Finance</td>
</tr>
<tr>
<td>SCIE1103</td>
<td>Science, Society and Communication</td>
</tr>
<tr>
<td>SCIE1104</td>
<td>Science, Society and Data Analysis</td>
</tr>
</tbody>
</table>

Level 2

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM2210</td>
<td>Science and Its Communication—Peer to Peer</td>
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<tr>
<td>ECON2224</td>
<td>Environmental Economics 2</td>
</tr>
<tr>
<td>ECON2233</td>
<td>Microeconomics: Policy and Applications</td>
</tr>
<tr>
<td>ENVTE2251</td>
<td>Environmental Hydrology</td>
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<tr>
<td>Level 3</td>
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</tr>
<tr>
<td>PLNG2203</td>
<td>Environmental Policy and Planning</td>
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<tr>
<td>PLNG3303</td>
<td>Regional Development and Planning</td>
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<tr>
<td>ECON3323</td>
<td>Business and the Environment</td>
</tr>
<tr>
<td>SCIE3366</td>
<td>Project and Risk Management</td>
</tr>
<tr>
<td>SCIE3367</td>
<td>Decision Tools for Natural Resource Management</td>
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</table>

<table>
<thead>
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<th>Level 4</th>
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</thead>
<tbody>
<tr>
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<td>FNAS Research Thesis Part 1</td>
</tr>
<tr>
<td>SCIE4502</td>
<td>FNAS Research Thesis Part 2</td>
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<td>FNAS Research Thesis Part 3</td>
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<td>FNAS Research Thesis Part 4</td>
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<tr>
<td>ENVT4402</td>
<td>Analysis for Natural Resource Management</td>
</tr>
<tr>
<td>SCIE4402</td>
<td>Data Management and Analysis in the Natural Sciences</td>
</tr>
<tr>
<td>ECON4410</td>
<td>Environmental and Resource Economics</td>
</tr>
<tr>
<td>ECON5511</td>
<td>Climate, Energy and Water Economics</td>
</tr>
</tbody>
</table>

*Available for the last time in 2012.*

Table 11.1.39A(10)—Combined Course (71120)—Bachelor of Science (Environmental and Natural Resource Economics) options

All units have a value of six points unless otherwise stated.

<table>
<thead>
<tr>
<th>Unit Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVT2220</td>
<td>The Climate System</td>
</tr>
<tr>
<td>ENVT2250</td>
<td>Ecology</td>
</tr>
</tbody>
</table>

**Genetics and Breeding (PG-GENBR)**

**Course structure**

11.1.39A.8(1) The Genetics and Breeding program consists of units to a total value of 144 points comprising—

(a) all units in Table 11.1.39A(11) [Combined Course (71120)—Bachelor of Science (Genetics and Breeding) core units]—1902 points
(b) subject to (2), units to a maximum value of six points from Table 11.1.39A(1) (Recognised Level 1 units for the Bachelor of Science component)—or 6 points

and

(c) two units from Group A in Table 11.1.39A(12) [Combined Course (71120)—Bachelor of Science (Genetics and Breeding) options]—12 points

and

(d) at least two one units from Group B in Table 11.1.39A(12) [Combined Course (71120)—Bachelor of Science (Genetics and Breeding) options]—at least 12 points

and

(e) one unit from Group C in Table 11.1.39A(12) [Combined Course (71120)—Bachelor of Science (Genetics and Breeding) options]—6 points

and

(f) one unit from Group DCE in Table 11.1.39A(12) [Combined Course (71120)—Bachelor of Science (Genetics and Breeding) options]—6 points

and

(g) at least one unit from Group ED in Table 11.1.39A(12) [Combined Course (71120)—Bachelor of Science (Genetics and Breeding) options]—at least 6 points

and

(h) at least one unit from Group EDE in Table 11.1.39A(12) [Combined Course (71120)—Bachelor of Science (Genetics and Breeding) options]—at least 6 points

(2) Students who commence the course with WACE Mathematics 2C/2D or TEE Discrete Mathematics only must complete MATH1050 Introductory Calculus and MATH1701 Introductory Mathematics Foundations.

(3) All students must complete at least one of PLNT3306 Australian Vegetation and ANIM3361 Animal Populations.

Table 11.1.39A(11)—Combined Course (71120)—Bachelor of Science (Genetics and Breeding) core units

All units have a value of six points unless otherwise stated.

Level 1

BIOL1130 Core ConceptsFrontiers in Biology
BIOL1131  Plant and Animal Biology
EART1105  The Dynamic Planet
SCIE1106  Molecular Biology of the Cell
SCIE1103  Science, Society and Communication
SCIE1104  Science, Society and Data Analysis

Level 2

COMM2210  Science and Its Communication—Peer to Peer¹
GENE2230  Molecular Genetics
GENE2250  Principles of Inheritance
BIOC2203  Biochemistry and Molecular Biology of the Cell
GENE2204  Principles of Genetics

Level 3

ANIM3362  Evolutionary Processes

Level 4

AGRI5501  Advanced Breeding and Biotechnology in Action 1
AGRI5502  Advanced Breeding and Biotechnology in Action 2
SCIE4501  FNAS Research Thesis Part 1
SCIE4502  FNAS Research Thesis Part 2
SCIE4503  FNAS Research Thesis Part 3
SCIE4504  FNAS Research Thesis Part 4
SCIE4402  Data Management and Analysis in the Natural Sciences

¹ Available for the last time in 2012.

Table 11.1.39A(12)—Combined Course (71120)—Bachelor of Science (Genetics and Breeding) options

All units have a value of six points unless otherwise stated.

Group A
CHEM1001 Chemistry—Properties and Energetics; and
CHEM1002 Chemistry—Structure and Reactivity
CHEM1003 Introductory Chemistry; and
CHEM1004 Biological Chemistry

Group B

GENE2230 Molecular Genetics
SCIE2225 Molecular Biology
ANIM2207 Animal Function and Structure
PLNT2201 Plant Physiology: Plants in Action
BIOL2261 Conservation Biology
PLNT2204 Plant Diversity and Conservation
ENVT2221 Global Climate Change and Biodiversity

Group C

SCIE2203 Bioinformatics
INMT2234 Information Systems Management

Group D

AGRI4404 Breeding and Animal Biotechnology
AGRI4405 Breeding and Plant Biotechnology

Group D E

ANIM3306 Clean, Green and Ethical Animal Production
ANIM3363 Environmental Physiology
ANIM3353 Wildlife Conservation and Management
SCIE3314 Agricultural Systems
PLNT3306 Australian Vegetation

Group EF
The Geology and Resource Economics program consists of units to a total value of 144 points comprising—

(a) all units in Table 11.1.39A(13) [Combined Course (71120)—Bachelor of Science (Geology and Resource Economics) core units]—1260 points

and

(b) subject to (2) and (3), units to a maximum value of 12 points from Table 11.1.39A(1) (Recognised Level 1 units for the Bachelor of Science component);

and

(c) units to a minimum value of 6 12 points from Group C in Table 9.2.10a [Recognised units for the Bachelor of Science (70100)].

(2) Students who commence the course without a scaled mark of 50 or higher in WACE Chemistry 3A/3B or TEE Chemistry must, in addition to the requirements in (1), complete CHEM1003 Introductory Chemistry.

(3) Students who commence the course with WACE Mathematics 2C/2D or TEE Discrete Mathematics only must complete MATH1050 Introductory Calculus MATH1701 Introductory Mathematics Foundations.

Table 11.1.39A(13)—Combined Course (71120)—Bachelor of Science (Geology and Resource Economics) core units

All units have a value of six points unless otherwise stated.

**Level 1**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EART1104</td>
<td>Introduction to Geology</td>
</tr>
<tr>
<td>EART1105</td>
<td>The Dynamic Planet</td>
</tr>
<tr>
<td>EART1108</td>
<td>Globalisation, Environment and Development</td>
</tr>
<tr>
<td>ECON1102</td>
<td>Macroeconomics: Money and Finance</td>
</tr>
<tr>
<td>ECON1120</td>
<td>Environmental Economics 1</td>
</tr>
</tbody>
</table>
SCIE1104 Science, Society and Data Analysis

Level 2

EART2201 Geographic Information Systems
EART2231 Earth Materials
EART2232 Field Geology
EART2234 Earth Processes
ECON2224 Environmental Economics 2

Level 3

EART3342 Geochemistry and Petrology
EART3343 Structural Geology and Tectonics
EART3353 Geological Mapping
EART3344 Basin Analysis
ECON3323 Business and the Environment

Level 4

SCIE4501 FNAS Research Thesis Part 1
SCIE4502 FNAS Research Thesis Part 2
SCIE4503 FNAS Research Thesis Part 3
SCIE4504 FNAS Research Thesis Part 4

ENVT4402 Analysis for Natural Resource Management

Table 11.1.39A(14)—Rescinded

Horticulture (PG-HORTR)

Note: This program is not available for new enrolments as of 2010. Students who enrolled before 2010 are governed by the 2009 Rules. For course advice contact a Faculty Adviser.

11.1.39A.10 Rescinded [including Table 11.1.39A(15)]

Land Rehabilitation (PG-LNDRH)
Note: This program is not available for new enrolments as of 2012. Students who enrolled before 2011 are governed by the 2011 Rules. For course advice contact a Faculty Adviser.

Course structure

11.1.39A.11(1) The Land Rehabilitation program consists of units to a total value of 144 points comprising—

(a) all units in Table 11.1.39A(16) [Combined Course (71120)—Bachelor of Science (Land Rehabilitation) core units]—132 points

and

(b) subject to (2) and (3), units to a maximum value of 12 points from Table 11.1.39A(1) (Recognised Level 1 units for the Bachelor of Science component).

(2) Students who commence the course without a scaled mark of 50 or higher in WACE Chemistry 3A/3B or TEE Chemistry must, in addition to the requirements in (1), complete CHEM1003 Introductory Chemistry.

(3) Students who commence the course with WACE Mathematics 2C/2D or TEE Discrete Mathematics only must complete MATH1701 Introductory Mathematics Foundations/MATH1050 Introductory Calculus.

Table 11.1.39A(16)—Combined Course (71120)—Bachelor of Science (Land Rehabilitation) core units

All units have a value of six points unless otherwise stated.

Level 1

— BIOL1130 Core Concepts/ Frontiers in Biology
— BIOL1131 Plant and Animal Biology
— EART1104 Introduction to Geology
— EART1105 The Dynamic Planet
— EART1108 Globalisation, Environment and Development
— ECON1120 Environmental Economics 1
— SCIE1104 Science, Society and Data Analysis

Level 2

— ENVT2250 Ecology
— EART2201 Geographic Information Systems
Landscape Management (PG-LSCMM)

Note: This program is not available for new enrolments as of 2010. Students who enrolled before 2010 are governed by the 2009 Rules. For course advice contact a Faculty Adviser.

11.1.39A.12 Rescinded [including Tables 11.1.39A(18) and 11.1.39A(19)]

Mineral Geoscience (PG-MINGS)

Note: This program is not available for new enrolments as of 2011. Students who enrolled before 2011 are governed by the rules that follow. For course advice contact a Faculty adviser.
Course structure

11.1.39A.12A(1) The Mineral Geoscience program consists of units to a total value of 144 points comprising—

(a) all units in Table 11.1.39A(20) [Combined Course (71120)—Bachelor of Science (Mineral Geoscience) core units]—126 points

and

(b) (i) subject to (2) and (3), units to a maximum value of 12 points from Table 11.1.39A(1) (Recognised Level 1 units for the Bachelor of Science component); and

(c) units to a minimum value of 6 points (ii) units to a maximum value of 12 points from Group C in Table 9.2.10a [Recognised units for the Bachelor of Science (70100)].

(2) Students who commence the course without a scaled mark of 50 or higher in WACE Chemistry 3A/3B or TEE Chemistry must, in addition to the requirements in (1), complete CHEM1003 Introductory Chemistry.

(3) Students who commence the course with WACE Mathematics 2C/2D or TEE Discrete Mathematics only must complete MATH1050 Introductory Calculus MATH1701 Introductory Mathematics Foundations.

Table 11.1.39A(20)—Combined Course (71120)—Bachelor of Science (Mineral Geoscience) core units

All units have a value of six points unless otherwise stated.

Level 1

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM1001</td>
<td>Chemistry—Properties and Energetics</td>
</tr>
<tr>
<td>EART1104</td>
<td>Introduction to Geology</td>
</tr>
<tr>
<td>EART1105</td>
<td>The Dynamic Planet</td>
</tr>
<tr>
<td>EART1108</td>
<td>Globalisation, Environment and Development</td>
</tr>
<tr>
<td>SCIE1104</td>
<td>Science, Society and Data Analysis</td>
</tr>
<tr>
<td>MATH1035</td>
<td>Calculus and Matrices</td>
</tr>
<tr>
<td>MATH1050</td>
<td>Introductory Calculus</td>
</tr>
<tr>
<td>MATH1701</td>
<td>Introductory Mathematics Foundations</td>
</tr>
<tr>
<td>MATH1712</td>
<td>Intermediate Mathematics Specialist</td>
</tr>
</tbody>
</table>
Level 2

- EART2201 Geographic Information Systems
- EART2231 Earth Materials
- EART2232 Field Geology
- EART2234 Earth Processes
- ENVT2251 Environmental Hydrology

Level 3

- EART3342 Geochemistry and Petrology
- EART3343 Structural Geology and Tectonics
- EART3344 Basin Analysis
- EART3353 Geological Mapping

Level 4

- SCIE4501 FNAS Research Thesis Part 1
- SCIE4502 FNAS Research Thesis Part 2
- SCIE4503 FNAS Research Thesis Part 3
- SCIE4504 FNAS Research Thesis Part 4
- GEOS4410 Australia’s Geological Evolution
- GEOS4411 Mineralising Systems
- GEOS4415 Mineral Geoscience Special Topic

Table 11.1.39A(21)—Rescinded

Natural Resource Management (PG-NRMGT)

Course structure

11.1.39A.13(1) The Natural Resource Management program consists of units to a total value of 144 points comprising—
(a) all units in Table 11.1.39A(22) [Combined Course (71120)—Bachelor of Science (Natural Resource Management) core units]—114 points

and

(b) subject to (2) and (3), units to a maximum value of 12 points from Table 11.1.39A(1) (Recognised Level 1 units for the Bachelor of Science component);

and

(c) at least one unit from Group A in Table 11.1.39A(23) [Combined Course (71120)—Bachelor of Science (Natural Resource Management) options]—at least 6 points

and

(d) (i) at least one unit from Group B in Table 11.1.39A(23) [Combined Course (71120)—Bachelor of Science (Natural Resource Management) options]—at least 6 points

and

(e) at least one unit (ii) at least one unit from Group C in Table 11.1.39A(23) [Combined Course (71120)—Bachelor of Science (Natural Resource Management) options]—at least 6 points—at least 6 points.

(2) Students who commence the course without a scaled mark of 50 or higher in WACE Chemistry 3A/3B or TEE Chemistry must, in addition to the requirements in (1), complete CHEM1003 Introductory Chemistry.

(3) Students who commence the course with WACE Mathematics 2C/2D or TEE Discrete Mathematics only must complete MATH1701 Introductory Mathematics Foundations and MATH1050 Introductory Calculus.

Table 11.1.39A(22)—Combined Course (71120)—Bachelor of Science (Natural Resource Management) core units

All units have a value of six points unless otherwise stated.

**Level 1**

- EART1105 The Dynamic Planet
- BIOL1130 Core Concepts in Biology
- BIOL1131 Plant and Animal Biology
Table 11.1.39A(23)—Combined Course (71120)—Bachelor of Science (Natural Resource Management) options

All units have a value of six points unless otherwise stated.

**Group A**
The Petroleum Geoscience program consists of units to a total value of 144 points comprising—

(a) all units in Table 11.1.39A(24) [Combined Course (71120)—Bachelor of Science (Petroleum Geoscience) core units]—132 points

and

(b) subject to (2) and (3), units to a maximum value of 12 points from Table 11.1.39A(1) (Recognised Level 1 units for the Bachelor of Science component).

Students who commence the course without a scaled mark of 50 or higher in WACE Chemistry 3A/3B or TEE Chemistry must, in addition to the requirements in (1), complete CHEM1003 Introductory Chemistry.
Students who commence the course with WACE Mathematics 2C/2D or TEE Discrete Mathematics only must complete MATH1050 Introductory Calculus MATH1701 Introductory Mathematics Foundations.

Table 11.1.39A(24)—Combined Course (71120)—Bachelor of Science (Petroleum Geoscience) core units

All units have a value of six points unless otherwise stated.

**Level 1**

- CHEM1002 Chemistry—Structure and Reactivity
- EART1104 Introduction to Geology
- EART1105 The Dynamic Planet
- EART1108 Globalisation, Environment and Development

**ECON1120 Environmental Economics I**

**MATH1071 Intermediate Mathematics Specialist Calculus and Matrices**

**SCIE1104 Science, Society and Data Analysis**

**Level 2**

- EART2201 Geographic Information Systems
- EART2231 Earth Materials
- EART2232 Field Geology
- EART2234 Earth Processes
- ENVT2251 Environmental Hydrology

**Level 3**

- EART3337 Coastal Environments
- EART3342 Geochemistry and Petrology
- EART3343 Structural Geology and Tectonics
- EART3344 Basin Analysis
- EART3353 Geological Mapping

**Level 4**
Urban and Regional Planning (PG-URPLN)

Course structure

11.1.39A.15(1) The Urban and Regional Planning program consists of units to a total value of 144 points comprising—

(a) all units in Table 11.1.39A(26) [Combined Course (71120)—Bachelor of Science (Urban and Regional Planning) core units]—126 points

and

(b) subject to (2), one unit from Table 11.1.39A(1) (Recognised Level 1 units for the Bachelor of Science component);

and

(c) two units from Group B or C in Table 9.2.10a [Recognised units for the Bachelor of Science (70100)]—12 points.

(2) Students who commence the course with WACE Mathematics 2C/2D or TEE Discrete Mathematics only must complete MATH1050 Introductory Calculus, MATH1701 Introductory Mathematics Foundations.

Table 11.1.39A(25)—Rescinded

Table 11.1.39A(26)—Combined Course (71120)—Bachelor of Science (Urban and Regional Planning) core units

All units have a value of six points unless otherwise stated.

Level 1

<table>
<thead>
<tr>
<th>Unit Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCT1000</td>
<td>Studio Fundamentals</td>
</tr>
<tr>
<td>ECON1120</td>
<td>Environmental Economics 1</td>
</tr>
</tbody>
</table>
EART1105  The Dynamic Planet
EART1108  Globalisation, Environment and Development
PLNG1101  Geographies of Global Cities

Level 2

SCOM2205  Science Presentations
EART2201  Geographic Information Systems
PLNG2201  Geographies of Economic Development
PLNG2202  Social Geography and Planning
PLNG2203  Environmental Policy and Planning

Level 3

PLNG3301  Geographical and Planning Methods
PLNG3302  Urban Design for Planners
PLNG3303  Regional Development and Planning
PLNG3304  Geographical and Planning Field Studies

Level 4

PLNG4401  Planning Theory and Practice
PLNG4402  Planning Law
PLNG4403  Planning and Governance
PLNG4404  Statutory Planning
SCIE4501  FNAS Research Thesis Part 1
SCIE4502  FNAS Research Thesis Part 2
SCIE4503  FNAS Research Thesis Part 3
SCIE4504  FNAS Research Thesis Part 4

Viticulture (PG-VITIC)

Note: This program is not available for new enrolments as of 2008. Students who enrolled before 2008 are governed by the 2007 Rules for the program.
11.1.39A.16 Rescinded

Viticulture and Oenology (PG-VITOE)

Note: This program is not available for new enrolments as of 2008. Students who enrolled before 2008 are governed by the 2007 Rules for the program.

11.1.39A.17 Rescinded

Wildlife Management (PG-WLFMM)

Course structure

11.1.39A.18(1) The Wildlife Management program consists of units to a total value of 144 points comprising—

(a) all units in Table 11.1.39A(27) [Combined Course (71120)—Bachelor of Science (Wildlife Management) core units]—132 points

and

(b) subject to (2) and (3), units to a maximum value of 12 points from Table 11.1.39A(1) (Recognised Level 1 units for the Bachelor of Science component).

(2) Students who commence the course without a scaled mark of 50 or higher in WACE Chemistry 3A/3B or TEE Chemistry must, in addition to the requirements in (1), complete CHEM1003 Introductory Chemistry.

(3) Students who commence the course with WACE Mathematics 2C/2D or TEE Discrete Mathematics only must complete MATH1050 Introductory Calculus, 1701 Introductory Mathematics Foundations.

Table 11.1.39A(27)—Combined Course (71120)—Bachelor of Science (Wildlife Management) core units

All units have a value of six points unless otherwise stated.

Level 1

<p>| BIOL1130 | Core Concepts in Biology |
| BIOL1131 | Plant and Animal Biology |
| EART1105 | The Dynamic Planet |
| EART1108 | Globalisation, Environment and Development |
| ECON1120 | Environmental Economics 1 |
| SCIE1103 | Science, Society and Communication |</p>
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCIE1104</td>
<td>Science, Society and Data Analysis</td>
</tr>
<tr>
<td><strong>Level 2</strong></td>
<td></td>
</tr>
<tr>
<td>ANIM2207</td>
<td>Animal Function and Structure</td>
</tr>
<tr>
<td>ANIM2208</td>
<td>Animal Ethics and Welfare</td>
</tr>
<tr>
<td><strong>COMM2210</strong></td>
<td>Science and Its Communication—Peer-to-Peer</td>
</tr>
<tr>
<td>EART2201</td>
<td>Geographic Information Systems</td>
</tr>
<tr>
<td>ENVIT2250</td>
<td>Ecology</td>
</tr>
<tr>
<td><strong>GENE2250</strong></td>
<td>Principles of Inheritance</td>
</tr>
<tr>
<td>PLNT2204</td>
<td>Plant Diversity and Conservation</td>
</tr>
<tr>
<td><strong>Level 3</strong></td>
<td></td>
</tr>
<tr>
<td>ANIM3361</td>
<td>Animal Populations</td>
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<tr>
<td>ANIM3362</td>
<td>Evolutionary Processes</td>
</tr>
<tr>
<td>ANIM3353</td>
<td>Wildlife Conservation and Management</td>
</tr>
<tr>
<td>SCIE3366</td>
<td>Project and Risk Management</td>
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<tr>
<td>SCIE3367</td>
<td>Decision Tools for Natural Resource Management</td>
</tr>
<tr>
<td><strong>Level 4</strong></td>
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</tr>
<tr>
<td>BIOL5502</td>
<td>Animal Resource Management</td>
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<tr>
<td>SCIE4501</td>
<td>FNAS Research Thesis Part 1</td>
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<tr>
<td>SCIE4504</td>
<td>FNAS Research Thesis Part 4</td>
</tr>
<tr>
<td>SCIE4402</td>
<td>Data Management and Analysis in the Natural Sciences</td>
</tr>
</tbody>
</table>

1 Available for the last time in 2012.

Table 11.1.39A(28)—Rescinded

Award of Bachelor of Science with Honours
11.1.39A.19(1) The Faculty of Natural and Agricultural Sciences may award the degree of Bachelor of Science with Honours to a student who is qualified for the award of the Bachelor of Science and who has completed the relevant research project in one year of enrolment.

(2) The Faculty determines whether honours are to be awarded and, if so, the classification of honours to be awarded on the basis of a student’s performance as set out in (3).

(3) For the Bachelor of Science, the honours calculation is based on a student’s mark in the relevant research project and a student’s weighted average over the relevant research project (total: 24 points) and the highest scoring Level 3, 4 or 5 units with a total value of 24 points.

Classification of honours

11.1.39A.20 Honours are awarded as follows:

<table>
<thead>
<tr>
<th>Classification</th>
<th>Weighted Average</th>
<th>Minimum Mark for Research Project</th>
</tr>
</thead>
<tbody>
<tr>
<td>H1</td>
<td>80% to 100%</td>
<td>80%</td>
</tr>
<tr>
<td>2A</td>
<td>70% to 79%</td>
<td>70%</td>
</tr>
<tr>
<td>2B</td>
<td>65% to 69%</td>
<td>65%</td>
</tr>
</tbody>
</table>