

**Rules Variation Summary for 2012
Bachelor of Science/Bachelor of Laws**

Summary of Changes for 2012 Bachelor of Science component	Implications for current Bachelor of Science/Bachelor of Laws students
<p>Program of Study – Overview Listed Units: All Listed Units have been withdrawn and replaced with Elective Units -</p> <ul style="list-style-type: none"> • AGRO422, ANUT321, AQUA200, ASTY221, COMP280, COMP283, COMP284, COMP285, COMP286, COMP287, COMP303, COMP309, COMP311, COMP313, COMP318, COMP319, COMP320, COMP323, COMP389, ECOL204, EM323, EM351, EM432, ENGT352, FSC102, HORT420, HUMN340, SCI395, STAT200 and WORK300 have been withdrawn <p>Elective Units:</p> <ul style="list-style-type: none"> • Credit points changed from 6 to 36 cps to 0 to 36 cps 	<p>Students who have already successfully completed units that are no longer offered will be credited towards their course.</p> <p>These course rule changes only apply to students who commence or transfer to 2012 course rules.</p>
<p>Majors with no changes for 2012:</p> <ul style="list-style-type: none"> • Crop/Animal Sciences Combined Major 	<p>Nil</p>
<p>Applied Physics Major</p> <ul style="list-style-type: none"> • Prescribed Units changed to Listed Units • BIOP320 title changed to Medical and Clinical Biotechnology • Elective Units added: Complete 36 credit points 	<p>Note the unit title change</p> <p>These course rule changes only apply to students who commence or transfer to 2012 course rules.</p>
<p>Biochemistry Major Core Units:</p> <ul style="list-style-type: none"> • And complete 6 credit points from the following units changed to And complete 12 credit points from the following units - • MATH101 and MATH102 OR MATH120 and STAT100 • Elective Units added: Complete 24 credit points 	<p>These course rule changes only apply to students who commence or transfer to 2012 course rules.</p>
<p>Botany Major Core Units:</p> <ul style="list-style-type: none"> • And complete 6 credit points from the following units changed to And complete 12 credit points from the following units - 	<p>Note the unit and/or title change</p> <p>These course rule changes only apply to students who commence or transfer to 2012 course rules.</p>

<ul style="list-style-type: none"> • MATH101 and MATH102 OR MATH120 and STAT100 <p>Prescribed Units:</p> <ul style="list-style-type: none"> • BOTY202 title changed to Plant Physiology and Anatomy <p>Listed Units:</p> <ul style="list-style-type: none"> • ECOL307 and ECOL311 have been added • Elective Units added: Complete 24 credit points 	
<p>Chemistry Major</p> <p>Core Units:</p> <ul style="list-style-type: none"> • And complete 6 credit points from the following units changed to And complete 12 credit points from the following units - • MATH101 and MATH102 OR MATH120 and STAT100 <p>Prescribed Units changed to Listed Units:</p> <ul style="list-style-type: none"> • PHAR370 has been added • Elective Units added: Complete 30 credit points 	<p>These course rule changes only apply to students who commence or transfer to 2012 course rules.</p>
<p>Forensic Science Major</p> <p>Listed Units:</p> <ul style="list-style-type: none"> • BIOP320 title changed to Medical and Clinical Biotechnology • Elective Units added: Complete 30 credit points 	<p>Note the unit title changes</p> <p>These course rule changes only apply to students who commence or transfer to 2012 course rules.</p>
<p>Genetics Major</p> <p>Core Units:</p> <ul style="list-style-type: none"> • And complete 6 credit points from the following units changed to And complete 12 credit points from the following units - • MATH101 and MATH102 OR MATH120 and STAT100 • Elective Units added: Complete 24 credit points 	<p>These course rule changes only apply to students who commence or transfer to 2012 course rules.</p>
<p>Mathematics Major</p> <p>Core Units:</p> <ul style="list-style-type: none"> • Credit points changed from 12 cps to 18 cps • AMTH140 moved from Prescribed Units to Core Units 	<p>These course rule changes only apply to students who commence or transfer to 2012 course rules.</p>

<ul style="list-style-type: none"> • And complete 12 credit points from the following units – • COMP131 and COMP132 have been added <p>Prescribed Units changed to Listed Units:</p> <ul style="list-style-type: none"> • Complete 36 credit points with at least 18 credit points at 300-level from the following units – • MATH260, PMTH331, PMTH332 and PMTH338 added • And complete 6 credit points from the following units – • MATH3200*, MATH3710*, MTH2032**, MTH3167** remain in this section <p>Elective Units added: Complete 24 credit points</p>	
<p>Microbiology Major</p> <p>Core Units:</p> <ul style="list-style-type: none"> • And complete 6 credit points from the following units changed to And complete 12 credit points from the following units - • MATH101 and MATH102 OR MATH120 and STAT100 <p>Prescribed Units: Credit points changed from 36 cps to 30 cps</p> <ul style="list-style-type: none"> • GENE210 moved to Listed Units <p>Listed Units added: Complete 6 cps from the following units –</p> <ul style="list-style-type: none"> • BOTY370 Plant Pathology • GENE210 Introductory Genetics <p>Elective Units added: Complete 24 credit points</p>	<p>These course rule changes only apply to students who commence or transfer to 2012 course rules.</p>
<p>Physiology Major</p> <p>Core Units:</p> <ul style="list-style-type: none"> • And complete 6 credit points from the following units changed to And complete 12 credit points from the following units - • MATH101 and MATH102 OR MATH120 and STAT100 <p>Prescribed Units: Credit points changed from 36 cps to 42 cps</p> <ul style="list-style-type: none"> • PSIO334 has been added 	<p>These course rule changes only apply to students who commence or transfer to 2012 course rules.</p>

Elective Units added: Complete 18 credit points	
Zoology Major Core Units: <ul style="list-style-type: none"> • And complete 6 credit points from the following units changed to And complete 12 credit points from the following units - • MATH101 and MATH102 OR MATH120 and STAT100 	These course rule changes only apply to students who commence or transfer to 2012 course rules.
Elective Units added: Complete 24 credit points	
Combined Majors	
Applied/Environmental Genetics Combined Major Core Units: Credit points changed from 24 cps to 36 cps - <ul style="list-style-type: none"> • MATH120 and STAT100 have been incorporated 	These course rule changes only apply to students who commence or transfer to 2012 course rules.
Biochemistry/Physiology Combined Major Core Units: Credit points changed from 24 cps to 36 cps - <ul style="list-style-type: none"> • MATH120 and STAT100 have been incorporated 	These course rule changes only apply to students who commence or transfer to 2012 course rules.
Biodiversity/Ecology Combined Major Core Units: Credit points changed from 24 cps to 36 cps - <ul style="list-style-type: none"> • MATH120 and STAT100 have been incorporated 	Note the unit and/or title changes
Biotechnology/Molecular Genetics Combined Major Listed Units: <ul style="list-style-type: none"> • BIOP320 title changed to Medical and Clinical Biotechnology • FSC310 and PHAR370 have been added 	Note the unit and/or title changes
Geology/Environmental Geosciences Combined Major Core Units: Credit points changed from 24 cps to 36 cps - <ul style="list-style-type: none"> • MATH120 and STAT100 have been incorporated Listed Units: <ul style="list-style-type: none"> • SOIL310 title changed to Soil, Pollution and the Environment 	These course rule changes only apply to students who commence or transfer to 2012 course rules.
Bachelor of Laws component <ul style="list-style-type: none"> • LS394, LS396 and LS397 have been added 	Implications for current Bachelor of Science/Bachelor of Laws students Note unit changes

**Rules Variation Summary for 2011
Bachelor of Science/Bachelor of Laws**

Summary of Changes for 2011 Bachelor of Science component	Implications for current Bachelor of Science/Bachelor of Laws students
Program of Study – Overview Majors: <ul style="list-style-type: none"> Statistics Major has been withdrawn Listed Units: <ul style="list-style-type: none"> COMP287 title changed to GUI Programming and Interaction Design ENVE352 code changed to ENGT352 Principles of Hydrology MSM301, 302, 303, 304, 305, 306, 307 and 308 have been withdrawn 	Note unit code and/or title changes Students who have already successfully completed units that are no longer offered will be credited towards their course These course rule changes only apply to students who commence or transfer to 2011 course rules
Majors with no changes for 2011: <ul style="list-style-type: none"> Mathematics Major Zoology Major Mathematics/Statistics Combined Major 	Nil
Applied Physics Major <ul style="list-style-type: none"> PHYS301 title changed to Microscopic to Macroscopic Physics and Chemistry 	Note the title change
Biochemistry Major <ul style="list-style-type: none"> BCHM330 title changed to Molecular Biology and Functional Genomics 	Note the title change
Botany Major <ul style="list-style-type: none"> BOTY370 title changed to Plant Pathology 	Note the title change
Chemistry Major <ul style="list-style-type: none"> CHEM203 code changed to CHEM250 Analytical Chemistry CHEM210 title changed to Quantum and Thermochemical Structure PHYS301 title changed to Microscopic to Macroscopic Physics and Chemistry 	Note the unit/title changes
Forensic Science Major <ul style="list-style-type: none"> CHEM203 code changed to CHEM250 Analytical Chemistry BCHM330 title changed to Molecular Biology and Functional Genomics COMP271 withdrawn and replaced with COMP272 and title changed to Introduction to Biometrics 	Note the unit/title changes Students who have already successfully completed units that are no longer offered will be credited towards their course

<p>Genetics Major</p> <ul style="list-style-type: none"> • BCHM330 title changed to Molecular Biology and Functional Genomics • BINF350 title changed to Genomic Analysis and Bioinformatics • GENE322 title changed to Population and Conservation Genetics • GENE351 title changed to Introduction to Breeding and Genetics 	<p>Note the title changes</p>
<p>Microbiology Major</p> <ul style="list-style-type: none"> • BCHM330 title changed to Molecular Biology and Functional Genomics 	<p>Note the title change</p>
<p>Physiology Major</p> <ul style="list-style-type: none"> • ANAT310 has been withdrawn • PSIO336 has been added • PHAR222 title changed to Pharmacology I • PSIO331 title changed to Endocrinology and Reproductive Physiology • PSIO332 title changed to Cardiovascular and Respiratory Physiology 	<p>Note the unit/title changes</p> <p>Students who have already successfully completed units that are no longer offered will be credited towards their course</p>
<p>Statistics Major</p> <ul style="list-style-type: none"> • Statistics major has been withdrawn 	<p>Year specific rules continue to apply, but students may apply to transfer to 2011 rules where at least one other major is appropriate eg the combined Mathematics/Statistics major</p>
<p>Combined Majors</p>	
<p>Applied/Environmental Genetics Combined Major</p> <ul style="list-style-type: none"> • BCHM330 title changed to Molecular Biology and Functional Genomics • GENE322 title changed to Population and Conservation Genetics • GENE351 title changed to Introduction to Breeding and Genetics 	<p>Note the title changes</p>
<p>Biochemistry/Physiology Combined Major</p> <ul style="list-style-type: none"> • ANAT310 has been withdrawn • PSIO336 has been added • BCHM330 title changed to Molecular Biology and Functional Genomics • PSIO331 title changed to Endocrinology and Reproductive Physiology • PSIO332 title changed to Cardiovascular and Respiratory Physiology • PHAR222 title changed to Parmacology I 	<p>Note the unit/title changes</p>

Biodiversity/Ecology Combined Major <ul style="list-style-type: none"> • ECOL202 title changed to Aquatic Ecology 	Note the title change
Biotechnology/Molecular Genetics Combined Major <ul style="list-style-type: none"> • BCHM330 title changed to Molecular Biology and Functional Genomics • BINF350 title changed to Genomic Analysis and Bioinformatics • GENE322 title changed to Population and Conservation Genetics • GENE351 title changed to Introduction to Breeding and Genetics • PHAR222 title changed to Pharmacology I 	Note the title changes
Crop/Animal Sciences Combined Major <ul style="list-style-type: none"> • GENE351 title changed to Introduction to Breeding and Genetics 	Note the title change
Geology/Environmental Geosciences <ul style="list-style-type: none"> • GEOL205 code changed to GEOL313 Environmental Geology 	Note the code change
Bachelor of Laws component <ul style="list-style-type: none"> • There are no changes for 2011 	Implications for current Bachelor of Science/Bachelor of Laws students Nil

**Rules Variation Summary for 2010
Bachelor of Science/Bachelor of Laws**

Summary of Changes for 2010 Bachelor of Science component	Implications for current Bachelor of Science/Bachelor of Laws students
Program of Study – Overview Elective Units: <ul style="list-style-type: none"> • COMP285 title change to C++ Programming • COMP311 title change to Multimedia Technologies • EM323 title change to Wildlife Ecology and Management 	Note the title changes
Majors with no changes for 2010: <ul style="list-style-type: none"> • Biochemistry Major • Genetics Major • Microbiology Major • Physiology Major • Biochemistry/Physiology Combined Major • Biotechnology/Molecular Genetics Combined Major 	Nil

<ul style="list-style-type: none"> • Crop/Animal Sciences Combined Major • Geology/Environmental Geosciences Combined Major 	
Applied Physics Major <ul style="list-style-type: none"> • PHYS212 is now PHYS313 Applied Photonics 	Note the unit/title changes
Botany Major <ul style="list-style-type: none"> • ECOL203 title change to Ecology – Populations to Ecosystems 	Note the title changes
Chemistry Major <ul style="list-style-type: none"> • CHEM201 is now CHEM210 Chemical Structure • CHEM202 is now CHEM220 Chemical Reactivity • CHEM303 title change to Medicinal Chemistry • CHEM307 has been replaced with FSC310 Forensic Chemistry 	Note the unit/title changes
New - Forensic Science Major Core Units – Complete the following units: <ul style="list-style-type: none"> • BIOL110 Biology I • CHEM110 Chemistry I • CHEM120 Chemistry II And complete 6 cps from the following units: <ul style="list-style-type: none"> • MATH101 Algebra and Differential Calculus • MATH120 Introductory Mathematical Methods in Science and Economics • CHEM202 is now CHEM220 Chemical Reactivity And complete 6 cps from the following units: <ul style="list-style-type: none"> • MATH102 Integral Calculus, Differential Equations and Introductory Statistics • PHYS131 Applied Physics I • STAT100 Statistical Modelling for the Sciences I Prescribed units – Complete the following units: <ul style="list-style-type: none"> • CHEM203 Environmental and Analytical Chemistry • FSC310 Forensic Chemistry Listed units – Complete 24 cps with at least 12 cps at 300-level from the following units: <ul style="list-style-type: none"> • ARPA336 Forensic Anthropology • ARPA370 Forensic Archaeology • BCHM210 Introductory Molecular Biology and Biochemistry I 	These course rule changes only apply to students who commence or transfer to 2010 course rules

<ul style="list-style-type: none"> • BCHM330 Molecular Biology (DNA Technology) • BIOP320 Biomedical Applications of Biophysics • COMP271 Computer Forensics and Biometrics • CRIM304 Forensic Science and Criminal Justice • MICR220 Introductory Microbiology • MICR360 Biotechnology and Industrial Microbiology • ZOOL220 Entomology • SCI395 Science Report <p>Elective units for this Major</p> <ul style="list-style-type: none"> • BIOL120 Biology II • CRIM100 Understanding Crime • FSC102 Fundamentals in Forensic Science • PHYS132 Applied Physics II 	
Mathematics Major <ul style="list-style-type: none"> • STAT260 is now MATH260 Probability and Simulation 	Note the unit change
Statistics Major <ul style="list-style-type: none"> • STAT260 is now MATH260 Probability and Simulation 	Not the unit change
Zoology Major <ul style="list-style-type: none"> • EM323 title change to Wildlife Ecology and Management 	Note the title change
Combined Majors	
Applied/Environmental Genetics Combined Major <ul style="list-style-type: none"> • ECOL203 title change to Ecology – Populations to Ecosystems 	Note the title changes
Biodiversity/Ecology Combined Major <ul style="list-style-type: none"> • ECOL203 title change to Ecology – Populations to Ecosystems 	Note the title changes
Mathematics/Statistics Combined Major <ul style="list-style-type: none"> • STAT260 is now MATH260 Probability and Simulation 	Note the title changes
Bachelor of Laws component <ul style="list-style-type: none"> • There are no changes for 2010 	Implications for current Bachelor of Science/Bachelor of Laws students Nil

**Rules Variation Summary for 2009
Bachelor of Science/Bachelor of Laws**

Summary of Changes for 2009	Implications for current Bachelor of Science/Bachelor of Laws students
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Bachelor of Science component	
Majors with no changes for 2009: <ul style="list-style-type: none"> • Applied Physics major • Biochemistry major • Genetics major • Microbiology Major • Physiology Major • Statistics Major • Applied Environmental Genetics Combined Major • Biotechnology/Molecular Genetics Combined Major • Crop/Animal Sciences Combined Major 	Nil
Botany Major <ul style="list-style-type: none"> • Title of BOTY202 changed to Plant Physiology • Code for BOTY355 changed to BOTY302 • BOTY360 has been withdrawn 	<p><i>For students who began in or after 2008</i> Note the unit changes.</p> <p><i>For students who began before 2008</i> Note unit changes and refer to 2007 course information.</p>
Chemistry Major <ul style="list-style-type: none"> • Change of requirements for the major. From 2009, students will require 36cp of which 18cp must be at 300 level from listed units for the major instead of 12 cp from 200 level units and 24cp from 300 level. 	<p><i>For students who began in or after 2008</i> Current students may complete the major under the new requirements.</p> <p><i>For students who began before 2008</i> Refer to 2007 course information.</p>
Mathematics Major <ul style="list-style-type: none"> • New unit PMTH331(Introduction to Topology) has been added to the listed units from which 6cp must be undertaken 	<p><i>For students who began in or after 2008</i> Note the unit change</p> <p><i>For students who began before 2008</i> Refer to 2007 course information.</p>
Zoology Major <ul style="list-style-type: none"> • The unit MARI3330 (Marine Fish and Fisheries) offered by the University of Newcastle has been added as a listed unit in the major. 	<p><i>For students who began in or after 2008</i> Note the unit change</p> <p><i>For students who began before 2008</i> You may not undertake this major.</p>
Combined Majors	
Biochemistry and Physiology Combined Major Note the following elective unit changes: <ul style="list-style-type: none"> • Elective COMP285 change of unit title to Introduction to Object- 	<p><i>For students who began in or after 2008</i> Note the unit changes</p>

<p>Oriented Programming in Java</p> <ul style="list-style-type: none"> • Elective HORT420 change of unit title to Horticultural Science 	<p><i>For students who began before 2008</i> You may not undertake this major.</p>
<p>Biodiversity and Ecology Combined Major</p> <ul style="list-style-type: none"> • Elective COMP285 change of unit title to Introduction to Object-Oriented Programming in Java • Elective HORT420 change of unit title to Horticultural Science 	<p><i>For students who began in or after 2008</i> Note the unit changes</p> <p><i>For students who began before 2008</i> You may not undertake this major.</p>
<p>Geology/Environmental Geosciences Combined Major</p> <ul style="list-style-type: none"> • Elective COMP285 change of unit title to Introduction to Object-Oriented Programming in Java • Elective HORT420 change of unit title to Horticultural Science 	<p><i>For students who began in or after 2008</i> Note the unit changes</p> <p><i>For students who began before 2008</i> You may not undertake this major</p>
<p>Mathematics/Statistics Combined Major</p> <ul style="list-style-type: none"> • New unit PMTH331(Introduction to Topology) has been added to the listed units from which 6cp must be undertaken • Elective COMP285 change of unit title to Introduction to Object-Oriented Programming in Java • Elective HORT420 change of unit title to Horticultural Science 	<p><i>For students who began in or after 2008</i> Note the unit change</p> <p><i>For students who began before 2008</i> You may not undertake this major.</p>
<p>Bachelor of Laws component</p>	<p>Implications for current Bachelor of Science/Bachelor of Laws students</p>
<p>Note the following changes to course rules for 2009:</p> <ul style="list-style-type: none"> • Addition of new compulsory units LS111 (Civil Procedure) and LS212 (Evidence and Proof) which take the place of LS210. • Withdrawal of current compulsory unit LS210 (Civil Procedure and Evidence) after semester 2, 2009. • Addition of new compulsory unit LS101 (Law in Context) 	<p><i>For Students beginning study in semester one 2009</i> Will follow the 2009 Bachelor of Laws course rules</p> <p><i>Current students who began in 2008 or earlier</i></p> <ul style="list-style-type: none"> • Students should note that LS210 is a compulsory requirement under the pre 2009 rules and will be available for the last time in semester 2 2009. Students who do not successfully complete LS210 before it is withdrawn must undertake both new units (LS111 and LS212) and one fewer elective. • Students also have the option of transferring to the new course rules in which case they would also need to successfully complete LS101.