

Course:	D351 Bachelor of Teaching (Science)/Bachelor of Science		
Campus:	Burwood (Melbourne)		
Student name:		ID#:	
CoE expiry:		CTR (credit):	

## Sample Enrolment Map

Year 1				
<b>SLE010 Laboratory &amp; Fieldwork Safety Induction Program (Compulsory: Must be completed before first classes commence)</b>				
<b>STP010 Introduction to Work Placement – 0 Credit Point Compulsory Unit (Must be completed prior to IBL or SLE352)</b>				
Tri-1	EPP101 Teacher-Learner Identity	Science course grouped	Science course grouped	Science course grouped
Tri-2	EPP102 Learning-Teaching Communities	Science course grouped	Science course grouped	Science course grouped
Tri-3				
Year 2				
Tri-1	EES200 Communicating Science	Science course grouped	Science course grouped	Science course grouped
Tri-2	EPP207 Pedagogy	Science course grouped	Science course grouped	Science course grouped
Tri-3				
Year 3				
Tri-1	EPP304 Ways of Knowing Children and Adolescents	Secondary Curriculum Study 1A for 1st teaching method*	Science course grouped	Science course grouped
Tri-2	EEH531 Promoting Student Wellbeing	Secondary Curriculum Study 1B for 1st teaching method*	Science course grouped	Science course grouped
Tri-3				
Year 4				
Tri-1	EXC425 Literacy and Numeracy Across the Curriculum	Secondary Curriculum Study 2A for 2nd teaching method*	EPP305 Policy, Schooling and Society	ESS439 Issues in Science and Enviro. Education <b>OR</b> ESM415 Problem Solving and Modelling in the Maths Classroom
Tri-2	EPP406 Professional Identity and Curriculum Work	Secondary Curriculum Study 2B for 2nd teaching method*	EXC440 Teaching for Diversity	ESS415 Resources in the Contemporary Science Curriculum
Tri-3				

# SLE133, SLE155 - Students who have not completed Year 12 Chemistry or equivalent should choose to do SLE133 in trimester 1. Students who have completed Year 12 Chemistry or equivalent should choose to do SLE155 in trimester 2. Please refer to the requirements of each major/minor as the Cell Biology and Chemistry and Materials Science major/minor requires completion of SLE155.

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## Course Requirements:

The Bachelor of Teaching (Science) is offered as a combined course of 32 credit points (four years of full time study or part-time equivalent). Students will undertake 16 credit point in the Faculty of Science, Engineering and Built Environment and 16 credit points in the Faculty of Arts and Education units.

To satisfy the Bachelor of Science requirements students must complete 16 credit points in the Faculty of Science, Engineering and Built Environment, including at least one 6-credit-point major sequence in a specific science discipline and a 4 credit point (minimum) science sub-major sequence consisting of 2 credit points at each of levels 1 and 2.

## Major Sequences:

- Animal Biology (MJ-S000064)
- Cell Biology (MJ-S000065)
- Plant Biology (MJ-S000070)
- Human Biology (MJ-S000068)
- Environmental Science (MJ-S000011)
- Natural History (MJ-S000069)
- Chemistry and Material Science (MJ-S000066)
- Mathematical Modelling (MJ-S000007)

Students completing a biology major or minor may only choose to do one (of the 5) biological science-related disciplines as a major or minor sequence from the list below:

- Cell Biology
- Animal Biology
- Human Biology
- Plant Biology
- Natural History

Their second sequence must be chosen from one of the 'non' biology sequences as follows:

- Chemistry and Material Science
- Mathematical Modelling
- Environmental Science

Note: All D351 students must undertake both a major and minor sequence within their BSc component of the combined course. SLE111 Cells and Genes may be counted as part of the minor sequence.

Science Core requirements:

Unit	Unit Title	Trimester	Offered	Prerequisite
<b>Core Science Units:</b>				
SLE111	Cells and Genes	T1 T3	B, W, G B	Nil
SLE103	Ecology and the Environment	T1 T3	B, W, G B	Nil
EES200	Communicating Science	T1	B, G	Nil
SEP122	Physics for the Life Sciences	T2	B, G, W	Nil
SIT191	Introduction to Statistics and Data Analysis	T1	B, G, W, X	Nil
SLE133	Chemistry in Our World	T1 T3	B, G B	Nil (Students who have successfully completed VCE Chemistry 3 and 4 or equivalent are normally advised to choose an elective in place of this unit)
SLE155	Chemistry for the Professional Sciences	T2	B, G	Nil (Students, who have not successfully completed VCE Chemistry 3 and 4, or equivalent, are advised to first complete SLE131 or SLE133)
<b><i>^Note: Students who have not completed Year 12 Chemistry or equivalent may choose to do SLE133 Chemistry in Our World in Trimester 1. Students who have completed Year 12 Chemistry or equivalent may choose to do SLE155 Chemistry for the Professional Sciences in Trimester 2.</i></b>				
SLE209	History and Philosophy of Science	T2	X	Must have passed 4 credit points
SLE352	Community Science Project	T2	B, G	One of SIT191, SIT194, HPS201 or SLE251

Student (name and signature)	Course advisor (name and signature)	Date:

## Major Sequence requirements:

<b>Animal Biology (MJ-S000064)</b>		<b>CP</b>	<b>Campus</b>	<b>Period</b>	<b>Prerequisite</b>
SLE132	Biology: Form and Function	1	B, G, W	T2	Nil
SLE204	Animal Diversity	1	B, G	T1	SLE111 or SLE132
SLE205	Vertebrate Structure and Function	1	B, G	T2	SLE132
SLE315	Comparative Animal Physiology	1	X	T2	One of SLE204, SLE211, SLE232, SLE255 or SLE221
SLE350	Marine Wildlife (T3)	1	B, G, W	T3	Two level 2 SLE-coded units. Please note that entry to this unit is via application and requires approval of the Unit Chair.
SLE370 or SLE372	Evolution or Evolutionary Ecology	1 1	B, X G	T1 T1	One of SLE204, SLE205, SLE254 plus one other level 2 SLE-coded unit. SLE103 and SLE204, and one of SLE111 or SLE254, plus any two
<b>Cell Biology (MJ-S000065)</b>		<b>CP</b>	<b>Campus</b>	<b>Period</b>	<b>Prerequisite</b>
SLE212	Biochemistry	1	B, G	T1	SLE152 or SLE155
SLE254	Genetics	1	B, G, W	T2	SLE111 or SLE144
SLE206	Cell Biology	1	B (T2) G (T3)	T2, T3	SLE111
SLE222	Biochemical Metabolism	1	B, G	T2	SLE152 or SLE155
SLE346	Molecular Basis of Disease	1	B, G	T2	SLE212 and one of SLE206, SLE211, SLE222 or SLE214
SLE340 or SLE321	Genomes and Bioinformatics or Molecular Biology Techniques	1 1	G B	T1 T1	SLE254 One of SLE206, SLE221, SLE234 or SLE254
<b>Plant Biology (MJ-S000070)</b>		<b>CP</b>	<b>Campus</b>	<b>Period</b>	<b>Prerequisite</b>
SLE132	Biology: Form and Function	1	B, G, W	T2	Nil
SLE203	Plant Biology	1	B	T1	One of SLE103, SLE111, SLE132 or SLE151
SLE237	Biogeography (T3)	1	B	T3	One of SLE102, SLE103, SLE111, SLE115, SLE132, SLE136 or SLE151
SLE310	Pest Plants and Animals	1	B	T1	Two level 2 SLE-coded units.
SLE317	Australian Vegetation and Its Management	1	B	T2	Two level 2 SLE-coded units.
SLE370	Evolution	1	B, X	T1	One of SLE204, SLE205, SLE254 plus one other level 2 SLE-coded unit.
<b>Human Biology (MJ-S000068)</b>		<b>CP</b>	<b>Campus</b>	<b>Period</b>	<b>Prerequisite</b>
SLE132	Biology: Form and Function	1	B, G, W	T2	Nil
SLE254	Genetics	1	B, G	T2	SLE111 or SLE144
SLE211	Principles of Physiology	1	B, G	T1	One of SLE111, HBS109 or SLE132
SLE221	Systems Physiology	1	B, G	T2	One of SLE111, HBS109, SLE132
SLE323	Advanced Topics in Biomedical Science	1	B, G	T1	Any two of SLE221, SLE222, SLE254 or SLE234
SLE339 or SLE340	Human Genetics or Genomes and Bioinformatics	1 1	B G	T2 T1	SLE206 or SLE254 SLE254
<b>Environmental Science (MJ-S000011)</b>		<b>CP</b>	<b>Campus</b>	<b>Period</b>	<b>Prerequisite</b>
SLE102	Physical Geography	1	B, G	T2	Nil
SLE239	Introduction to Geographic Information Systems	1	X	T1	Nil

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# Faculty of Science, Engineering and Built Environment

## 2016 Course Re-Enrolment Map



SLE231	Hydrology and Water Resources Management	1	B	T1	One of SLE101, SLE102 or SLE239
SLE202	Landscape Evolution	1	B	T1	SLE102
SHD301	Creating Sustainable Futures	1	B W	T2 T3	Must have completed 6 credit point units at Level 2 or higher.
SLE322	Landscape Ecology	1	B	T1	Two level 2 SLE-coded units.
<b>Natural History (MJ-S000069)</b>		<b>CP</b>	<b>Campus</b>	<b>Period</b>	<b>Prerequisite</b>
SLE136	History of Life	1	B	T2	Nil
SLE204	Animal Diversity	1	B, G	T1	SLE111 or SLE132
SLE203	Plant Biology	1	B	T1	One of SLE103, SLE111, SLE132 or SLE151
SLE237	Biogeography (T3)	1	B	T3	One of SLE102, SLE103, SLE111, SLE115, SLE132, SLE136 or SLE151
SLE370	Evolution	1	B, X	T1	One of SLE204, SLE205, SLE254 plus one other level 2 SLE-coded unit.
SLE395	Palaeobiology	1	B, X	T1	One of SLE102, SLE136, SLE103 or plus two level 2 units.
<b>Chemistry and Materials Science (MJ-S000066)</b>			<b>Campus</b>	<b>Period</b>	<b>Prerequisite</b>
<b>Note:</b> students undertaking this major sequence must have completed SLE155 Chemistry for the Professional Sciences (prereq to SLE210)					
SLE210	Chemistry the Enabling Science		B, G	T1	SLE152 or SLE155
SLE214	Organic Chemistry		B, G	T2	SLE152 or SLE155
SLE235	Chemical Systems (T3)		B	T3	SLE152 or SLE155
SLE212	Biochemistry		B, G	T1	SLE152 or SLE155
SLE330	Materials Chemistry		B	T1	One of SLE210, SLE214, SLE235
SLE338	Electrochemistry for a Sustainable Future		B	T2	One of SLE210, SLE214, SLE235
<b>Mathematical Modelling (MJ-S000007)</b>		<b>CP</b>	<b>Campus</b>	<b>Period</b>	<b>Prerequisite</b>
SIT194	Introduction to Mathematical Modelling	1	B, G, X	T2	Nil
SIT192	Discrete Mathematics	1	B, G, X B, X	T1 T2	Nil
SIT291	Mathematical Methods for Information Modelling	1	B, X	T1	SIT194
SIT292	Linear Algebra for Data Analysis	1	B, X	T2	SIT192
SIT396	Complex Analysis	1	B, G, X	T2	Two units chosen from SIT291, SIT292, SIT294
SIT399	Computational Decision Analysis	1	B, X	T1	One of SIT291, SIT292, SIT281, SIT294
<b>Mathematical Modelling sub-major sequence for D351 Bachelor of Teaching (Science)/Bachelor of Science students (for students who have not completed VCE Mathematical Methods 3 &amp; 4):</b>					
SIT192 Discrete Mathematics					
SIT190 Introductory Mathematical Methods					
SLE251 Research Methods and Data Analysis					
SIT292 Linear Algebra for Data Analysis					
OR					
SIT281 Cryptography					

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