Natural History (Burwood) Unit set code MJ-S000069		CP	Campus	Period	Prerequisite
SLE136	Life on an Evolving Planet	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	T1	One of SLE204, SLE205, SLE237, SLE254 plus one other level 2 SLE-coded unit.
SLE395	Palaeobiology	1	B	T1	One of SLE102, SLE136, SLE103 plus two level 2 units.
Plant Biology (Burwood) Unit set code MJ-S000070		**CP**	**Campus**	**Period**	**Prerequisite**
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	T1	One of SLE204, SLE205, SLE237, SLE254 plus one other level 2 SLE-coded unit.
Fisheries and Aquaculture (Warrnambool, Waurn Ponds) Unit set code MJ-S000072		**CP**	**Campus**	**Period**	**Prerequisite**
SLE134	Recreational Fisheries Science	1	WP	T3	Nil
SLE261	Diversity of Fishes	1	W, G	T2	One of SLE111, SLE132, SLE103 or SLE144
SLE262	Aquaculture and the Environment	1	W (T1) G (T2)	T1, T2	Nil
SLE217	Aquaculture Nutrition and Seafood Quality (Available from 2018)	1	G	T2	SLE111
SLE329	Aquatic Animal Health and Reproduction	1	W	T2	Any two level 2 SLE-coded units
SLE343	Fisheries Management	1	W	T2	SLE261
Genomics (Burwood, Waurn Ponds) Unit set code MJ-S000075		**CP**	**Campus**	**Period**	**Prerequisite**
SLE234	Microbiology	1	B, G	T1	SLE111 or for students enrolled in H300 - SLE111 or HMM102 and HMM103
SLE254	Genetics and Genomics	1	B, G	T2	SLE111 or SLE144
SLE208	Forensic Biology	1	B^, G	T2	STP010 and any four level one units
SLE340	Genomes and Bioinformatics	1	B*, G	T1	SLE254
SLE321	Molecular Biology Techniques	1	B, G~	T1	One of SLE206, SLE221, SLE234 or SLE254
SLE341	Ecological and Conservation Genetics	1	B, G	T1	SLE254

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FACULTY OF SCIENCE, ENGINEERING AND BUILT ENVIRONMENT

2018 COURSE ENROLMENT MAP

Course: S320 Bachelor of Science
Campus: Burwood (Melbourne), Waurn Ponds (Geelong), Warrnambool

Students must complete at least one major sequence.

Major Sequences

Animal Biology (Burwood, Geelong) Unit set code MJ-S000064		CP	Campus	Period	Prerequisite
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	Marine Animal Physiology	1	C	T2	One of SLE204, SLE211, SLE219, SLE265, SLE232, SLE255 or SLE221
SLE307	Behavioural Ecology (T3)	1	B	T3	SLE204
SLE370 **or** SLE372	Evolution **or** Evolutionary Ecology	1 1	B G	T1 T1	One of SLE204, SLE205, SLE237, SLE254 plus one other level 2 SLE-coded unit. SLE103 and SLE204, and one of SLE111 or SLE254, plus any two level 2 or level 3 SLE-coded units.
Geography (Burwood) Unit set code MJ-S000074		**CP**	**Campus**	**Period**	**Prerequisite**
SLE102	Physical Geography	1	B, G, C	T2	Nil
AIG103	People and Place: An Introduction to Human Geography	1	B, G, C	T1	Nil
SLE202	Landscape Evolution	1	B	T1	SLE102
SLE237	Biogeography	1	B	T3	One of SLE102, SLE103, SLE111, SLE115, SLE132, SLE136 or SLE151
SLE328	Oceans, Coasts and Climate Change	1	C	T2	Any two level 2 SLE-coded units
AIG300	Australian Urban Geography: National and International Perspectives	1	B, G, C	T2	Nil

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Cell Biology (Burwood, Geelong) Unit set code MJ-S000065		CP	Campus	Period	Prerequisite
Note: *students undertaking this major sequence must have completed SLE155 Chemistry for the Professional Sciences (prereq to SLE212)*					
SLE212	Biochemistry	1	B, G	T1	SLE152 or SLE155
SLE254	Genetics and Genomics	1	B, G	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 Molecular Biology Techniques	1 1	B*, G B, G~	T1 T1	SLE254 One of SLE206, SLE221, SLE234 or SLE254
Chemistry (Geelong) Unit set code MJ-S000009		**CP**	**Campus**	**Period**	**Prerequisite**
Note: *students undertaking this major sequence must have completed SLE155 Chemistry for the Professional Sciences (prereq to SLE210)*					
SLE210	Chemistry the Enabling Science	1	B, G	T1	SLE152 or SLE155
SLE213	Introduction to Spectroscopic Principles	1	G	T1	SLE152 or SLE155
SLE214	Organic Chemistry	1	B, G	T2	SLE152 or SLE155
SLE229	Introduction to Separation Science	1	G	T2	SLE152 or SLE155
SLE316	Analytical Chemistry	1	G	T1	SLE213 and SLE229
SLE318	Synthetic and Medicinal Chemistry	1	G	T1	SLE214 and at least four other level 2 units.
Chemistry and Materials Science (Burwood) Unit set code MJ-S000066		**CP**	**Campus**	**Period**	**Prerequisite**
Note: *students undertaking this major sequence must have completed SLE155 Chemistry for the Professional Sciences (prereq to SLE210)*					
SLE210	Chemistry the Enabling Science	1	B, G	T1	SLE152 or SLE155
SLE214	Organic Chemistry	1	B, G	T2	SLE152 or SLE155
SLE235	Chemical Systems (T3)	1	B	T3	SLE152 or SLE155
SLE212	Biochemistry	1	B, G	T1	SLE152 or SLE155
SLE330	Materials Chemistry	1	B	T1	One of SLE210, SLE214, SLE235
SLE338	Electrochemistry for a Sustainable Future	1	B	T2	One of SLE210, SLE214, SLE235

^ Available at the Melbourne Burwood Campus from 2019
* Available at the Melbourne Burwood Campus from 2020
~ Available at the Geelong Waurn Ponds Campus from 2020
# Available at the Geelong Waurn Ponds Campus from 2019

Environmental Science (Burwood) Unit set code MJ-S000011		CP	Campus	Period	Prerequisite
SLE102	Physical Geography	1	B, G	T2	Nil
SLE239	Introduction to Geographic Information Systems	1	C	T2	Nil
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	T2	Must have completed six credit point units at Level 2 or higher.
SLE322	Landscape Ecology	1	B	T1	Two level 2 SLE-coded units.
Human Biology (Burwood, Geelong) Unit set code MJ-S000068		**CP**	**Campus**	**Period**	**Prerequisite**
SLE132	Biology: Form and Function	1	B, G, W	T2	Nil
SLE254	Genetics and Genomics	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 and Genomics **or** Genomes and Bioinformatics	1 1	B, G~ B*, G	T2 T1	SLE254 SLE254
Mathematical Modelling (Burwood, Geelong, Cloud (online)) Unit set code MJ-S000007		**CP**	**Campus**	**Period**	**Prerequisite**
SIT194	Introduction to Mathematical Modelling	1	B, G, C	T2	Nil
SIT192	Discrete Mathematics	1	B, G, C B, C	T1 T2	Nil
SIT291	Mathematical Methods for Information Modelling	1	B, C	T1	SIT194
SIT292	Linear Algebra for Data Analysis	1	B, C	T2	SIT192
SIT396	Complex Analysis	1	B, G, C	T2	Two units chosen from SIT291, SIT292, SIT294
SIT399	Optimization Modelling and Decision Analysis	1	B, C	T1	One of SIT291, SIT292, SIT281
Freshwater Biology (Warrnambool, Waurn Ponds) Unit set code MJ-S000067		**CP**	**Campus**	**Period**	**Prerequisite**
SLE263	Marine and Coastal Ecosystems	1	W, G	T1	One of SLE103, SLE144 or SLE132
SLE244	Aquatic Ecology	1	W, G	T2	SLE103 or SLE144
SLE223	Water Quality and Ecological Health	1	W, G	T2	One of SLE133, SLE155, SLE150
SLE348	Freshwater Biology	1	W, G#	T1	SLE132 or SLE144
SEV322	Hydraulics and Hydrology	1	G, C	T1	SEM218
SLE304	Geographic Information Systems: Uses in Aquatic Environments	1	W, G#	T1	Any 2 level two science course-grouped units

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