

Diploma of Science

Course Outline (T1 2018)

Campus	Geelong Waurn Ponds Campus
Intake	March, June, October
CRICOS	063387K
Course Duration	The duration of the Diploma course is three trimesters (12 months). There is an option, however, to fast track the course and complete it in two trimesters (8 months).
Teaching Methods	Instruction for all units is classroom based. Generally, four hours of class contact per week are allocated to each unit. Some units have additional laboratory hours/practical classes.
Assessment	Assessment for all units is ongoing and continuous consisting of tests, assignments and case study analysis. Most units have a final two-hour examination.
Course Structure	Eight units must be completed and passed to be awarded the Diploma.
Units	Five core units:
	SLE123 Physics for the Life Sciences SLE111 Cells and Genes* SLE132 Biology: Form and Function* SLE133 Chemistry in Our World* SLE155 Chemistry for the Professional Sciences**
	plus three of:
	HBS107 Understanding Health HBS109 Human Structure and Function HSN101 Foundations of Food Nutrition and Health (available in Trimester 2 2016) SIT194 Introduction to Mathematical Modelling SIT191 Introduction to Statistics and Data Analysis SLE102 Physical Geography* SLE103 Ecology and the Environment SLE112 Fundamentals of Forensic Science* SLE115 Essential Skills in Bioscience



Note: All Diploma of Science students must complete a Laboratory and Fieldwork Safety Induction Program (SLE010), which is a 50-minute safety training program. This does not count toward your total units. * For SLE111, SLE132, SLE112, SLE155, SLE133, SLE123 and SLE102 you must complete SLE010 Laboratory and Fieldwork Safety Induction Program as a co-requisite unit ** You must successfully complete SLE133 Chemistry in our World before enrolling in SLE155 Chemistry for the professional sciences (Pre-requisite)

Transfer to Deakin University

The following transfer criteria apply:

- You must complete and pass eight Deakin College Diploma of Science units*.
- You must achieve the required Weighted Average Mark (WAM) for your Deakin College diploma taking into account all units attempted at Deakin College (required WAM's are included under each Deakin degree on the following pages).
- * Transfer to some degrees requires specific Deakin College units to be completed in order to receive the appropriate credits (see Deakin University degrees below). It is strongly recommended that students consult the Deakin University Handbook to check the academic requirements of their proposed course.



Diploma of Science (Geelong)Example Course Plans for Students

Example Course Plans for Students

The following are a series of example course plans for students studying in the Diploma of Science at Deakin College.

The following course plans should be used as a guide only. In some cases the order of subjects may be varied. However, choosing course plans that are the same or similar to the suggested plans below should, in most cases, minimise clashes and the time taken to complete your diploma.

How to use the Plans

Students need to select or choose which Deakin University Course they wish to transfer into once they have completed their studies at Deakin College. Deakin University offers direct transfer into the following courses

- Bachelor of Science
- Bachelor of Biological Science
- Bachelor of Biomedical Science
- Bachelor of Forensic Science
- Bachelor of Zoology & Animal Science
- Bachelor of Environmental Science (Environmental Management & Sustainability)
- Bachelor of Environmental Science (Wildlife & Conservation Biology)
- Bachelor of Environmental Science (Marine Biology)

Optional Support Program

The Support Program is optional and involves the addition of a foundation level chemistry unit FNDH021 Chemistry to the normal track program in the first trimester. As a consequence the diploma chemistry units (SLE133 and SLE155) occur one trimester later than the normal track program, but can be completed within three trimesters. The Support Program is recommended for those students who wish to establish a stronger basis in chemistry. A fee (up-front) is applicable to FNDH021.



Subject Availability - Diploma of Science (Waurn Ponds)

Please note that all students must complete the following core units as a part of the Diploma of Science

- SLE133 Chemistry in our World
- SLE155 Chemistry for the professional Sciences
- SLE111 Cells and Genes
- SLE132 Biology: Form and Function
- SLE123 Physics for the Life Sciences

Subject	Trimester 1 2018	Trimester 2 2018	Trimester 3 2018
SLE133 Chemistry in our World	✓	✓	✓
SLE155 Chemistry for the Professional Sciences	✓	✓	✓
SLE111 Cells and Genes	✓	✓	✓
SLE132 Biology: Form and Function	✓	✓	✓
SLE123 Physics for the Life Sciences	√	✓	✓
SLE115 Essential Skills in Bioscience	√	✓	✓
HBS107 Understanding Health	✓	✓	✓
HBS109 Human Structure and Function	√	✓	✓
HSN101 Foundations of Food Nutrition and Health	Х	√	х
SIT191 Introduction to Statistics and Data Analysis	1	✓	√
SIT194 Introduction to Mathematical Modelling	✓	✓	✓
SLE102 Physical Geography	✓	✓	✓
SLE103 Ecology & the Environment	✓	✓	✓
SLE112 Fundamentals of Forensic Science	✓	✓	✓



Support Units

Subject	Trimester 1	Trimester 2	Trimester 3
	2017	2017	2017
FNDH021 Chemistry	√	√	√



When I transfer to Deakin University I want to study: Bachelor of Science (B, WP, WB) Entry to Deakin University T1 T2

International Students WAM: **B** 50 **WP** 50 Australian Students WAM: **B** 50 **WP** 50

Credits for Transfer: 8

Please note students must complete one of the following majors

Animal Biology (B,WP)
 Cell Biology (B,WP)
 Chemistry (WP)
 Chemistry and Material Science (B)
 Environmental Science (B)
 Human Biology (B,WP)
 Mathematical Modelling (B,WP)
 Natural History (B)
 Plant Biology (B)
 Freshwater Biology (WP,W)
 Fisheries and Aquaculture (WP,W)
 Geography (B)
 Genomics (B, WP)

Fast Track	Fast Track (Completing In 8 months/2 trimesters)					
1 st	CORE	CORE	Required	Required	Safety Unit	
Trimester	SLE133	SLE111	Elective	Elective	(required)	
	Chemistry in	Cells and	SIT191	SLE103	SLE010	
	our World*	Genes*	Introduction to	Ecology and		
			Statistics and	Environment		
			Data Analysis			
2 nd	CORE	CORE	CORE	Elective		
Trimester	SLE155	SLE132	SLE123			
	Chemistry for	Biology:	Physics for the			
	the	Form and	Life Sciences*			
	Professional	Function*				
	Sciences**					

Normal Tra	ack (Completing c	ourse in 12 mo	onths/ 3 Trimesters		
1 st	CORE	CORE	Required	Safety Unit	
Trimester	SLE133	SLE111	Elective	(required)	
	Chemistry in	Cells and	SIT191	SLE010	
	our World*	Genes*	Introduction to		
			Statistics and		
			Data Analysis		
2 nd	CORE	CORE	Required		
Trimester	SLE155	SLE132	Elective		
	Chemistry for	Biology:	SLE103		
	the	Form and	Ecology and		
	Professional	Function*	Environment		
	Sciences**				
3 rd	CORE	Elective			
Trimester	SLE123				
	Physics for the				
	Life Sciences*				



Support Pr	Support Program (Completing course in 12 months/ 3 Trimesters – see note 3 below)					
1 st	SUPPORT	CORE	Required Elective	Safety Unit		
Trimester	FNDH021	SLE111	SIT191	(required)		
	Chemistry	Cells and	Introduction to	SLE010		
		Genes*	Statistics and			
			Data Analysis			
2 nd	CORE	CORE	Required Elective			
Trimester	SLE133	SLE132	SLE103			
	Chemistry in our	Biology: Form	Ecology and			
	World*	and Function*	Environment			
3 rd	CORE	CORE	Elective			
Trimester	SLE155	SLE123				
	Chemistry for	Physics for the				
	the Professional	Life Sciences*				
	Sciences**					

Electives

Students wishing to major in the following areas should include the following subjects in their electives:

- Environmental Science (B) SLE102 Physical Geography*
- Mathematical Modelling (B,WP)—SIT194 Introduction to Mathematical Modelling
- Geography (B) SLE102 Physical Geography*

Other Electives can include any of the following:

- HBS107 Understanding Health
- HBS109 Human Structure and Function
- HSN101 Foundations of Food, Nutrition and Health (available in T2 2018)
- SIT194 Introduction to Mathematical Modelling
- SLE102 Physical Geography*
- SLE115 Essential Skills in Bioscience
- SLE112 Fundamentals of Forensic Science
- * For SLE111, SLE132, SLE112, SLE155, SLE133, SLE123 and SLE102 you must complete SLE010 Laboratory and Fieldwork Safety Induction Program as a co-requisite unit.
- ** You must successfully complete SLE133 Chemistry in our World before enrolling in SLE155 Chemistry for the professional sciences (Pre-requisite).

Additional 1st Year Units to be taken at Deakin University

All students are required to complete STP010 Introduction to Work Placements at Deakin University. Students wishing to undertake the majors listed below will need to complete additional units:

Major	Additional Units
Natural History (B)	SLE136 Life On An Evolving Planet
Mathematical Modelling (B, WP, online)	SIT192 Discrete Mathematics
Fisheries and Aquaculture (WB, WP)	SLE134 Recreational Fisheries Science (T3)
Geography (B)	AIG103 People and Place: An Introduction to Human Geography



When I transfer to Deakin University I want to study: Bachelor of Biological Science (B) Entry to Deakin University T1 T2

International Students WAM: **B** 50 Australian Students WAM: **B** 70

Credits for Transfer: 8

Fast Track (Completing In 8 months/2 trimesters)					
1 st	CORE	CORE	Required	Required	Safety Unit
Trimester	SLE133	SLE111	Elective	Elective	(required)
	Chemistry in	Cells and	SLE103	SLE115	SLE010
	our World*	Genes*	Ecology and	Essential	
			Environment	Skills in	
				Bioscience	
2 nd	CORE	CORE	CORE	Elective	
Trimester	SLE155	SLE132	SLE123		
	Chemistry for	Biology:	Physics for		
	the	Form and	the Life		
	Professional	Function*	Sciences*		
	Sciences**				

Normal Tra	ack (Completing c	ourse in 12 n	nonths/ 3 Trime	sters)		
1 st	CORE	CORE	Required	Safety Unit		
Trimester	SLE133	SLE111	Elective	(required)		
	Chemistry in	Cells and	SLE115	SLE010		
	our World*	Genes*	Essential			
			Skills in			
			Bioscience			
2 nd	CORE	CORE	Required			
Trimester	SLE155	SLE132	Elective			
	Chemistry for	Biology:	SLE103			
	the	Form and	Ecology and			
	Professional	Function*	Environment			
	Sciences**					
3 rd	CORE	Elective				
Trimester	SLE123					
	Physics for the					
	Life Sciences*					



Support Pr	Support Program (Completing course in 12 months/ 3 Trimesters - see note						
3 below)	3 below)						
1 st	SUPPORT	CORE	Required	Safety Unit			
Trimester	FNDH021	SLE111	Elective	(required)			
	Chemistry	Cells and	SLE115	SLE010			
		Genes*	Essential Skills				
			in Bioscience				
2 nd	CORE	CORE	Required				
Trimester	SLE133	SLE132	Elective				
	Chemistry in our	Biology:	SLE103				
	World*	Form and	Ecology and				
		Function*	Environment				
3 rd	CORE	CORE	Elective				
Trimester	SLE155	SLE123					
	Chemistry for	Physics for					
	the Professional	the Life					
	Sciences**	Sciences*					

Other Electives can include any of the following:

- HBS107 Understanding Health
- HBS109 Human Structure and Function
- HSN101 Foundations of Food, Nutrition and Health (available in T2 2018)
- SIT191 Introduction to Statistics and Data Analysis
- SIT194 Introduction to Mathematical Modelling
- SLE102 Physical Geography*
- SLE112 Fundamentals of Forensic Science

Additional 1st Year Units to be taken at Deakin University

All students are required to complete SLE136 Life On An Evolving Planet at Deakin University.

^{*} For SLE111, SLE132, SLE112, SLE155, SLE133, SLE123 and SLE102 you must complete SLE010 Laboratory and Fieldwork Safety Induction Program as a co-requisite unit.

^{**} You must successfully complete SLE133 Chemistry in our World before enrolling in SLE155 Chemistry for the professional sciences (Pre-requisite).



When I transfer to Deakin University I want to study Bachelor of Biomedical Science (B G) Entry to Deakin University T1, T2

International Students WAM: **B** 50 **WP** 50 Australian Students WAM: **B** 70 **WP** 60

Credits for Transfer: 8

Molecular Life Sciences (B)
 Environmental Health (B,WP)
 Infection and Immunity (B,WP)

Medical Biotechnology (B,WP)
 Pharmaceutical Science (B,WP)
 Medical Geonomics (B, WP)

Fast Track	Fast Track (Completing In 8 months/2 trimesters)				
1 st	CORE	CORE	Required	Elective	Safety
Trimester	SLE133	SLE111	Elective		Unit
	Chemistry in	Cells and	SLE115		(required)
	our World*	Genes*	Essential		SLE010
			Skills in		
			Bioscience		
2 nd	CORE	CORE	CORE	Elective	
Trimester	SLE155	SLE132	SLE123		
	Chemistry for	Biology:	Physics for		
	the	Form and	the Life		
	Professional	Function*	Sciences*		
	Sciences**				

Normal Track (Completing course in 12 months/ 3 Trimesters)						
1 st	CORE	Safety				
Trimester	SLE133	CORE SLE111	Required Elective	Unit		
Tilliestei		Cells and	SLE115			
	Chemistry in			(required)		
	our World*	Genes*	Essential	SLE010		
			Skills in			
			Bioscience			
2 nd	CORE	CORE	CORE			
Trimester	SLE155	SLE132	SLE123			
	Chemistry for	Biology:	Physics for			
	the	Form and	the Life			
	Professional	Function*	Sciences*			
	Sciences**					
3 rd	Elective	Elective		•		
Trimester						



Support Pro	Support Program (Completing course in 12 months/ 3 Trimesters - see note 3						
below)	below)						
1 st	SUPPORT	CORE	Required	Safety Unit			
Trimester	FNDH021	SLE111	Elective	(required)			
	Chemistry	Cells and	SLE115	SLE010			
		Genes*	Essential Skills				
			in Bioscience				
2 nd	CORE	CORE	Elective				
Trimester	SLE133	SLE132					
	Chemistry in our	Biology:					
	World*	Form and					
		Function*					
3 rd	CORE	CORE	Elective				
Trimester	SLE155	SLE123					
	Chemistry for	Physics for					
	the Professional	the Life					
	Sciences**	Sciences*					

Electives

Students who are planning to major in Environmental Health (B) should take HBS107 Understanding Health and HSN101 Foundations of Food, Nutrition and Health as their electives

Other Electives can include any of the following:

- HBS107 Understanding Health
- HBS109 Human Structure and Function
- HSN101 Foundations of Food, Nutrition and Health (available in T2 2018)
- SIT191 Introduction to Statistics and Data Analysis
- SIT194 Introduction to Mathematical Modelling
- SLE103 Ecology and the Environment
- SLE102 Physical Geography*
- SLE112 Fundamentals of Forensic Science
- * For SLE111, SLE132, SLE112, SLE155, SLE133, SLE123 and SLE102 you must complete SLE010 Laboratory and Fieldwork Safety Induction Program as a co-requisite unit.
- ** You must successfully complete SLE133 Chemistry in our World before enrolling in SLE155 Chemistry for the professional sciences (Pre-requisite).

Additional 1st Year Units to be taken at Deakin University

Students wishing to undertake the majors listed below will need to complete additional units:

Major	Additional Units
Infection and Immunity	HMM103 Cell Technology and
(WP)	HMM104 Immunology and Haematology
Medical Biotechnology (WP)	HMM101 Introduction to Medical Biotechnology and
	HMM102 Principles of Gene and Genomic
	Technology



When I transfer to Deakin University I want to study: Bachelor of Forensic Science (WP) Entry to Deakin University T1 T2

International Students WAM: **WP** 50 Australian Students WAM: **WP** 50

Credits for Transfer: 8

● Forensic Biology ● Forensic Chemistry

Fast Track (Completing In 8 months/2 trimesters)							
1 st	CORE	CORE	Required	Elective	Safety Unit		
Trimester	SLE133	SLE111	Elective		(required)		
	Chemistry in	Cells and	SIT191		SLE010		
	our World*	Genes*	Introduction to				
			Statistics and				
			Data Analysis				
2 nd	CORE	CORE	CORE	Required			
Trimester	SLE155	SLE132	SLE123	Elective			
	Chemistry	Biology:	Physics for the	SLE112			
	for the	Form and	Life Sciences*	Fundamentals			
	Professional	Function*		of Forensic			
	Sciences**			Science *			

Normal Tra	Normal Track (Completing course in 12 months/ 3 Trimesters)						
1 st	CORE	CORE	Required	Safety Unit			
Trimester	SLE133	SLE111	Elective	(required)			
	Chemistry in	Cells and	SIT191	SLE010			
	our World*	Genes*	Introduction to				
			Statistics and				
			Data Analysis				
2 nd	CORE	CORE	Required				
Trimester	SLE155	SLE132	Elective				
	Chemistry	Biology:	SLE112				
	for the	Form and	Fundamentals				
	Professional	Function*	of Forensic				
	Sciences**		Science *				
3 rd	CORE	Elective					
Trimester	SLE123						
	Physics for						
	the Life						
	Sciences*						



Support Program (Completing course in 12 months/ 3 Trimesters - see note 3 below)						
1 st	SUPPORT	CORE	Required Elective	Safety		
Trimester	FNDH021	SLE111	SIT191	Unit		
	Chemistry	Cells and Genes*	Introduction to	(required)		
			Statistics and	SLE010		
			Data Analysis			
2 nd	CORE	CORE	Required Elective			
Trimester	SLE133	SLE132	SLE112			
	Chemistry in our	Biology: Form	Fundamentals of			
	World*	and Function*	Forensic Science*			
3 rd	CORE	CORE	Elective			
Trimester	SLE155	SLE123				
	Chemistry for	Physics for the				
	the Professional	Life Sciences*				
	Sciences**					

Other Electives can include any of the following:

- HBS107 Understanding Health
- HBS109 Human Structure and Function
- HSN101 Foundations of Food, Nutrition and Health (available in T2 2018)
- SIT194 Introduction to Mathematical Modelling
- SLE103 Ecology and the Environment
- SLE102 Physical Geography*
- SLE115 Essential Skills in Bioscience

Additional 1st Year Units to be taken at Deakin University

All students are required to complete ACR102 Introducing Crime and Criminal Justice and STP010 Introduction to Work Placements (0 credit point) at Deakin University.

^{*} For SLE111, SLE132, SLE112, SLE155, SLE133, SLE123 and SLE102 you must complete SLE010 Laboratory and Fieldwork Safety Induction Program as a co-requisite unit.

^{**} You must successfully complete SLE133 Chemistry in our World before enrolling in SLE155 Chemistry for the professional sciences (Pre-requisite).



When I transfer to Deakin University I want to study: Bachelor of Zoology and Animal Science (WP) Entry to Deakin University T1 T2

International Students WAM: **WP** 50 Australian Students WAM: **WP** 50

Credits for Transfer: 8

Fast Track (Completing In 8 months/2 trimesters)						
1 st	CORE	CORE	Required	Elective	Safety	
Trimester	SLE133	SLE111	Elective		Unit	
	Chemistry in	Cells and	SLE103		(required)	
	our World*	Genes*	Ecology and		SLE010	
			Environment			
2 nd	CORE	CORE	CORE	Required		
Trimester	SLE155	SLE132	SLE123	Elective		
	Chemistry	Biology:	Physics for	SLE102		
	for the	Form and	the Life	Physical		
	Professional	Function*	Sciences*	Geography*		
	Sciences**					

Normal Tra	ck (Completing	course in 12	months/ 3 Trim	nesters)
1 st	CORE	CORE	Required	Safety Unit
Trimester	SLE133	SLE111	Elective	(required)
	Chemistry in	Cells and	SLE103	SLE010
	our World*	Genes*	Ecology and	
			Environment	
2 nd	CORE	CORE	Required	
Trimester	SLE155	SLE132	Elective	
	Chemistry	Biology:	SLE102	
	for the	Form and	Physical	
	Professional	Function*	Geography*	
	Sciences**			
3 rd	CORE	Elective		•
Trimester	SLE123			
	Physics for			
	the Life			
	Sciences*			



Support Prog	ram (Completing co	ourse in 12 moi	nths/ 3 Trimesters	- see note 3
below)				
1 st	SUPPORT	CORE	Required	Safety Unit
Trimester	FNDH021	SLE111	Elective	(required)
	Chemistry	Cells and	SLE103	SLE010
		Genes*	Ecology and	
			Environment	
2 nd	CORE	CORE	Required	
Trimester	SLE133	SLE132	Elective	
	Chemistry in our	Biology:	SLE102	
	World*	Form and	Physical	
		Function*	Geography*	
3 rd	CORE	CORE	Elective	
Trimester	SLE155	SLE123		
	Chemistry for	Physics for		
	the Professional	the Life		
	Sciences**	Sciences*		

Other Electives can include any of the following:

- HBS107 Understanding Health
- HBS109 Human Structure and Function
- HSN101 Foundations of Food, Nutrition and Health (available in T2 2018)
- SIT191 Introduction to Statistics and Data Analysis
- SIT194 Introduction to Mathematical Modelling
- SLE112 Fundamentals of Forensic Science
- SLE115 Essential Skills in Bioscience

Additional 1st Year Units to be taken at Deakin University

All students are required to complete STP010 Introduction to Work Placements (0 credit point) at Deakin University.

^{*} For SLE111, SLE132, SLE112, SLE155, SLE133, SLE123 and SLE102 you must complete SLE010 Laboratory and Fieldwork Safety Induction Program as a co-requisite unit.

^{**} You must successfully complete SLE133 Chemistry in our World before enrolling in SLE155 Chemistry for the professional sciences (Pre-requisite).



When I transfer to Deakin University I want to study:
Bachelor of Environmental Science (Environmental Management and Sustainability) (B)
Entry to Deakin University T1 T2

International Students WAM: **B** 50 Australian Students WAM: **B** 50

Credits for Transfer: 8

Fast Track (Completing In 8 months/2 trimesters)						
1 st	CORE	CORE	Required	Elective	Safety Unit	
Trimester	SLE133	SLE111	Elective		(required)	
	Chemistry in	Cells and	SLE103		SLE010	
	our World*	Genes*	Ecology and			
			Environment			
2 nd	CORE	CORE	CORE	Required		
Trimester	SLE155	SLE132	SLE123	Elective		
	Chemistry	Biology:	Physics for	SLE102		
	for the	Form and	the Life	Physical		
	Professional	Function*	Sciences*	Geography*		
	Sciences**					

Normal Tra	Normal Track (Completing course in 12 months/ 3 Trimesters)						
1 st	CORE	CORE	Required	Safety Unit			
Trimester	SLE133	SLE111	Elective	(required)			
	Chemistry in	Cells and	SLE103	SLE010			
	our World*	Genes*	Ecology and				
			Environment				
2 nd	CORE	CORE	Required				
Trimester	SLE155	SLE132	Elective				
	Chemistry	Biology:	SLE102				
	for the	Form and	Physical				
	Professional	Function*	Geography*				
	Sciences**						
3 rd	CORE	Elective					
Trimester	SLE123						
	Physics for						
	the Life						
	Sciences*						



Support Prog	ram (Completing co	ourse in 12 moi	nths/ 3 Trimesters	- see note 3
below)				
1 st	SUPPORT	CORE	Required	Safety Unit
Trimester	FNDH021	SLE111	Elective	(required)
	Chemistry	Cells and	SLE103	SLE010
		Genes*	Ecology and	
			Environment	
2 nd	CORE	CORE	Required	
Trimester	SLE133	SLE132	Elective	
	Chemistry in our	Biology:	SLE102	
	World*	Form and	Physical	
		Function*	Geography*	
3 rd	CORE	CORE	Elective	
Trimester	SLE155	SLE123		
	Chemistry for	Physics for		
	the Professional	the Life		
	Sciences**	Sciences*		

Other Electives can include any of the following:

- HBS107 Understanding Health
- HBS109 Human Structure and Function
- HSN101 Foundations of Food, Nutrition and Health (available in T2 2018)
- SIT191 Introduction to Statistics and Data Analysis
- SIT194 Introduction to Mathematical Modelling
- SLE112 Fundamentals of Forensic Science
- SLE115 Essential Skills in Bioscience

Additional 1st Year Units to be taken at Deakin University

All students are required to complete SLE101 Techniques in Environmental Science, SLE121 Environmental Sustainability and STP010 Introduction to Work Placements at Deakin University.

^{*} For SLE111, SLE132, SLE112, SLE155, SLE133, SLE123 and SLE102 you must complete SLE010 Laboratory and Fieldwork Safety Induction Program as a co-requisite unit.

^{**} You must successfully complete SLE133 Chemistry in our World before enrolling in SLE155 Chemistry for the professional sciences (Pre-requisite).



When I transfer to Deakin University I want to study:
Bachelor of Environmental Science (Wildlife and Conservation Biology) (B)
Entry to Deakin University T1 T2

International Students WAM: **B** 50 Australian Students WAM: **B** 50

Credits for Transfer: 8

Fast Track	Fast Track (Completing In 8 months/2 trimesters)						
1 st	CORE	CORE	Required	Elective	Safety Unit		
Trimester	SLE133	SLE111	Elective		(required)		
	Chemistry in	Cells and	SLE103		SLE010		
	our World*	Genes*	Ecology and				
			Environment				
2 nd	CORE	CORE	CORE	Required			
Trimester	SLE155	SLE132	SLE123	Elective			
	Chemistry	Biology:	Physics for	SLE102			
	for the	Form and	the Life	Physical			
	Professional	Function*	Sciences*	Geography*			
	Sciences**						

Normal Track (Completing course in 12 months/ 3 Trimesters)				
1 st	CORE	CORE	Required	Safety Unit
Trimester	SLE133	SLE111	Elective	(required)
	Chemistry in	Cells and	SLE103	SLE010
	our World*	Genes*	Ecology and	
			Environment	
2 nd	CORE	CORE	Required	
Trimester	SLE155	SLE132	Elective	
	Chemistry	Biology:	SLE102	
	for the	Form and	Physical	
	Professional	Function*	Geography*	
	Sciences**			
3 rd	CORE	Elective		
Trimester	SLE123			
	Physics for			
	the Life			
	Sciences*			



Support Program (Completing course in 12 months/ 3 Trimesters - see note 3 below)					
1 st Trimester	SUPPORT FNDH021 Chemistry	CORE SLE111 Cells and	Required Elective SLE103	Safety Unit (required) SLE010	
	,	Genes*	Ecology and Environment		
2 nd	CORE	CORE	Required		
Trimester	SLE133	SLE132	Elective		
	Chemistry in our	Biology:	SLE102		
	World*	Form and	Physical		
		Function*	Geography*		
3 rd	CORE	CORE	Elective		
Trimester	SLE155	SLE123			
	Chemistry for	Physics for			
	the Professional	the Life			
	Sciences**	Sciences*			

Other Electives can include any of the following:

- HBS107 Understanding Health
- HBS109 Human Structure and Function
- HSN101 Foundations of Food, Nutrition and Health (available in T2 2018)
- SIT191 Introduction to Statistics and Data Analysis
- SIT194 Introduction to Mathematical Modelling
- SLE112 Fundamentals of Forensic Science
- SLE115 Essential Skills in Bioscience

Additional 1st Year Units to be taken at Deakin University

All students are required to complete SLE151 Biodiversity: A Global Perspective, SLE114 Introduction to Parks and Wildlife Conservation and STP010 Introduction to Work Placements at Deakin University.

^{*} For SLE111, SLE132, SLE112, SLE155, SLE133, SLE123 and SLE102 you must complete SLE010 Laboratory and Fieldwork Safety Induction Program as a co-requisite unit.

^{**} You must successfully complete SLE133 Chemistry in our World before enrolling in SLE155 Chemistry for the professional sciences (Pre-requisite).



When I transfer to Deakin University I want to study: Bachelor of Environmental Science (Marine Biology) (WP, WB) Entry to Deakin University T1 T2

International Students WAM: **WP** 50 **WB** 50 Australian Students WAM: **WP** 50 **WB** 50

Credits for Transfer: 8

Fast Track (Completing In 8 months/2 trimesters)					
1 st	CORE	CORE	Required	Required	Safety Unit
Trimester	SLE133	SLE111	Elective	Elective	(required)
	Chemistry in	Cells and	SLE103	SIT191	SLE010
	our World*	Genes*	Ecology and	Introduction	
			Environment	to Statistics	
				and Data	
				Analysis	
2 nd	CORE	CORE	CORE	Elective	
Trimester	SLE155	SLE132	SLE123		
	Chemistry for	Biology:	Physics for		
	the	Form and	the Life		
	Professional	Function*	Sciences*		
	Sciences**				

Normal Track (Completing course in 12 months/ 3 Trimesters)					
1 st	CORE	CORE	Required	Safety Unit	
Trimester	SLE133	SLE111	Elective	(required)	
	Chemistry in	Cells and	SLE103	SLE010	
	our World*	Genes*	Ecology and		
			Environment		
2 nd	CORE	CORE	Required		
Trimester	SLE155	SLE132	Elective		
	Chemistry for	Biology:	SIT191		
	the	Form and	Introduction		
	Professional	Function*	to Statistics		
	Sciences**		and Data		
			Analysis		
3 rd	CORE	Elective			
Trimester	SLE123				
	Physics for the				
	Life Sciences*				



Support Program (Completing course in 12 months/ 3 Trimesters - see note 3 below)					
1 st	SUPPORT	CORE	Required	Safety Unit	
Trimester	FNDH021	SLE111	Elective	(required)	
	Chemistry	Cells and	SLE103	SLE010	
		Genes*	Ecology and		
			Environment		
2 nd	CORE	CORE	Required		
Trimester	SLE133	SLE132	Elective		
	Chemistry in our	Biology:	SIT191		
	World*	Form and	Introduction		
		Function*	to Statistics		
			and Data		
			Analysis		
3 rd	CORE	CORE	Elective		
Trimester	SLE155	SLE123			
	Chemistry for	Physics for			
	the Professional	the Life			
	Sciences**	Sciences*			

Other Electives can include any of the following:

- HBS107 Understanding Health
- HBS109 Human Structure and Function
- HSN101 Foundations of Food, Nutrition and Health (available in T2 2018)
- SIT194 Introduction to Mathematical Modelling
- SLE115 Essential Skills in Bioscience
- SLE102 Physical Geography*
- SLE112 Fundamentals of Forensic Science

It is highly recommended that you choose SLE102 Physical Geography or SIT194 Introduction to Mathematical Modelling as your elective.

- * For SLE111, SLE132, SLE112, SLE155, SLE133, SLE123 and SLE102 you must complete SLE010 Laboratory and Fieldwork Safety Induction Program as a co-requisite unit.
- ** You must successfully complete SLE133 Chemistry in our World before enrolling in SLE155 Chemistry for the professional sciences (Pre-requisite).

Additional 1st Year Units to be taken at Deakin University

All students are required to complete SLE105 Human Impacts - Pollution, SLE104 The Blue Planet: Water and Life and STP010 Introduction to Work Placements (0 credit points) at Deakin University.



Deakin University Campuses and Trimester codes

B Melbourne Burwood Campus **WP** Geelong Waurn Ponds Campus **WB** Warrnambool Campus **T1** Trimester 1 entry **T2** Trimester 2 entry

NOTE: for Australian students entry is for T1 only. T2 entry is subject to availability of places.

CRICOS Codes: Bachelor of Science 083996G, Bachelor of Biological Science 001841F, Bachelor of Biomedical Science 085577M, Bachelor of Forensic Science 073106G, Bachelor of Zoology and Animal Science 075365F, Bachelor of Environmental Science (Environmental Management and Sustainability) 075361K, Bachelor of Environmental Science (Wildlife and Conservation Biology) 055286D, Bachelor of Environmental Science (Marine Biology) 053749E.



Unit Outlines

PLEASE ENSURE YOU CHECK THE TRIMESTER 1 2018 UNIT OUTLINE FOR ANY CONTENT AND ASSESSMENT UPDATES.

HBS107 Understanding Health

This interdisciplinary unit examines a determinants approach to health and wellbeing, including: the complex range of interactions that influence the health of individuals and populations; the determinants of selected health issues in urban and rural Australia, as well as in global contexts, and explores a range of models and approaches and their impact on health outcomes.

Topics include: The concepts of health, the social determinants of health, health systems, the biological and environmental determinants, health promotion, indigenous health, settings for health, marginalised populations and global health.

Assessment: 20% media analysis, 30% health plan Review, 50% final examination

HBS109 Human Structure and Function

This interdisciplinary unit provides an overview of the basic sciences of human anatomy and physiology, exploring issues of relevance to the health sciences. Specific topics to be addressed will include: organisation of the human body, outlining anatomical terms, chemical and structural bases of cell function, body tissues including integument, homeostasis and physiological control via neural and hormonal mechanisms that maintain a constant internal environment. Support and movement through an understanding of the musculo-skeletal system, and maintenance of key systems, cardiovascular, respiratory, digestive, urinary and immune systems.

Assessment: 40% practical class quizzes, 20% intra trimester tests, 40% final examination

HSN101 Foundations of Food, Nutrition and Health (offered in T3 2017 and T2 2018)

This unit provides students with foundation knowledge in food, nutrition and health, including food sources of nutrients, food and nutrient recommendations for health and methods for measuring food intake and behaviour, historical perspective of why we consume the foods we do today and how our scientific knowledge may influence foods we eat in the future. Students also gain an understanding of interactions between the environment, technologies developed to produce and harvest foods and scientific advances in food and nutrition. The topics include: food history, Australian food culture, food production, food sources of nutrients, food and nutrient recommendations and their relationship with health and methods used to measure food intakes and behaviours. Students also have an opportunity to align their interests and values to future career options.

Assessment: Assessment task 1: Three multiplechoice cloud (online) tests (5% each) 15%, Assessment task 2: Written assignment (1300 words) and video (1 minute) 40%, Assessment task 3: Career activity and reflection (500 words) 10% Assessment task 4: Examination (1.5 hours) 35%

SIT191 Introduction to Statistics and Data Analysis

Data is everywhere in the world. Without knowing how to interpret or use information from the data it would be difficult to understand its meaning. Statistics is both a method and a tool for interpreting information, testing hypotheses and analysing the inferences people make about the real-world. SIT191 aims to aid students develop knowledge in using statistics to summarise, describe and interpret numerical and graphical data and perform statistical inferences. In this unit, students will develop knowledge of the fundamentals of probability for reasoning real-world situations. Students will be

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required to use statistical software and calculators to analyse data and interpret results for tests on population means and proportions, chi-square tests, correlation and linear regression, and one-way ANOVA.

Assessment

Assessment: Examination 60%, three problem solving tasks (10% each) 30%, class participation and attendance 10%. To be eligible to obtain a pass in this unit, students must achieve a mark of at least 50% in the examination and an overall pass

SIT194 Introduction to Mathematical Modelling

This unit includes: functions and limits; derivatives and integrals of combinations of polynomials, exponential, logarithmic and trigonometric functions; sequences, series tests and power series; vectors, lines and planes; first order differential equations. Applications studied include graph sketching; approximations to solutions of equations and integrals; formulation of models to solve science and engineering problems.

Assessment: 40% four assignments (4 \times 10%), 60% final examination

SLE102 Physical Geography

This unit will examine interactions between the major components of planet Earth - the geosphere, hydrosphere, biosphere and atmosphere. A particular emphasis is placed on the study of natural disasters and extreme natural events. Major topics will include the formation and subsequent evolution of the earth; plate tectonics; soils, weathering and erosion; the hydrological cycle - including interactions between oceans, rivers, groundwater and polar ice: Earth weather. Minor topics will include studies in the origin of the universe and solar system; the relationship between earth landforms and climate, global environmental change and the earth's energy and mineral resources.

Assessment: 20% practical tests (2 x 10%), 30% mid trimester test, 20% assignment, 30% final examination

SLE103 Ecology and the Environment

SLE103 introduces students to the science of ecology, investigating relationships between organisms and the environment. In this unit, students will also explore climate change and energy issues. They will learn about the nature of science and the scientific method and how to use a systems framework to investigate environmental issues. This will equip students with the capacity to study key environmental issues such as climate systems and ecological systems and make a difference.

Assessment: 15% group poster presentation, 20% mid trimester test, 25% report, 40% final examination

SLE111 Cells and Genes*

In this unit, students will be able to study the characteristics of life that are fundamental for every field in biology. Upon successful completion of Cells and Genes, students will be able to explore, examine and describe the characteristics of prokaryotic and eukaryotic cells and their molecules, including cell reproduction and communication, membrane organization and metabolism, and apply this knowledge to solve problems and perform and report on the results of experiments. This understanding of molecular cell biology forms the basis for interpreting patterns of inheritance, mechanisms and control of gene expression and the principles of DNA technologies - all of which form the second part of the unit.

Assessment: Class test 15%, bioinformatics assignment 7%, practical exercises 33%, examination 45%. To obtain a pass in the unit, students must submit and pass at least 4 of the 5 practical class assessments.



SLE112 Fundamentals of Forensic Science*

SLE112 is a fundamental forensics unit, during which students will explore forensic science in an Australian context and learn the challenges and differences of forensic science in a global context. This includes some of the key principles used to study the science, including Locard's exchange principle, principle of individuality, comparative analysis, and class and individual characteristics. Students will engage in activities that will require them to apply forensic processes from a crime scene to the court. It will also require them to apply introductory forensic analysis including chemical, biological and physical techniques and learn about the legal system including how law is developed, criminal vs civil law, and the laws of evidence.

Assessment: Two in-class tests (15% each) 30%, a reflective report 25%, practical report and practical skills demonstration (3 x 15%) 45%. To be eligible to obtain a pass in this unit, students must achieve at least 50% in the practical report and practical skills demonstration assessment.

SLE115 Essential Skills in Bioscience

This unit is the first of a sequence of professional practice units designed specifically for students in the first year of biosciences. The unit will focus on the development of generic skills which will be of practical value to students in their bioscience studies. It will draw upon the scientific content of other first year units and utilise this context for skill-building exercises. These exercises will include research data analysis and presentation, library database searching, scientific writing and referencing, numeracy skills and introductory statistics, and basic concepts in pharmacology. Students will be encouraged to investigate career options available to them in the field of bioscience.

Assessment: mid-trimester test 20%, literature search 10%, careers report 20%, group presentation 10%, examination 40%

SLE123 Physics for the Life Sciences

The unit gives an introduction to physics, particularly applying to biological systems. Topics include kinematics, forces, gravity, energy, heat, fluids, waves, sound, optics, electricity, atoms and molecules. The physical principles of each topic are developed, and then applied to a practical understanding of biological systems and appropriate applications.

Assessment: 32% assignments, 18% laboratory work, 50% final examination

SLE132 Biology: Form and Function

SLE132 introduces students to animal and plant biology. Students will explore the relationships between animal structures and their functions, and investigate the physiological processes that enable animals to adjust to environmental changes. They will also learn aspects of animal diversity and behaviour. As students progress learning in this unit, they will study the evolutionary diversity of plants, their structure and functions, morphology and growth, reproductive biology, nutrient acquisition and transport, and their applications in biotechnology, with an emphasis on flowering plants. Examples from other plant groups and the non-plant eukaryotes, fungi and algae, will also be used for comparison and as examples during discussion.

Assessment: 15% Mid trimester tests, 35% practical exercises, 10% scientific report; 40% final examination

SLE133 Chemistry in Our World*

SLE133 is a foundation unit designed to develop and consolidate student understandings and skills in basic chemistry. The learning and assessment activities provide students with the opportunity to study atoms, molecules, and ions, how they change during a chemical reaction and how bonding affects properties such as intermolecular interactions, boiling points, ease of evaporation and the ability of substances to dissolve in water. Students will engage in laboratory work in order to develop their hands on



skills in chemical safety and measurement and their ability to perform calculations related to substance measurement. Students will then apply these concepts of bonding, chemical change and measurement to determine the acidity and basicity of substances and the formation of buffers.

This unit can be taken as a stand-alone unit for students who need some awareness of chemistry to broaden their degree, or can be taken as a foundation for further studies in biochemistry, chemistry, and related areas like food and nutrition, molecular biology and science education.

You must have completed SLE010 in the current or a previous trimester, before you can attend any laboratory sessions.

Assessment: Assessment: 20% in-class quizzes, 30% laboratory exercises and reports, 10% active tutorial participation, 40% final examination. To be eligible to obtain a pass in this unit, students must achieve at least 50% in the practical component.

SLE155 Chemistry for the Professional Sciences*

SLE155 builds on the student's previous chemistry knowledge about atoms, molecules, properties, reactions, measurement and acidity. Students will extend their knowledge to more advanced chemical naming, structures, and hypervalent bonding. They will be introduced to additional topics such as, chemical equilibria, solution chemistry, simple organic compounds, chirality and thermochemistry. This unit will lead to further studies in biochemistry, chemistry, and related areas such as food and nutrition, molecular biology and science education.

This unit can also be taken as an elective unit for students who want a broader knowledge of chemistry to enhance their degree.

Students must successfully complete SLE133 before enrolling in SLE155.

Assessment: Assessment: 20% in-class quizzes, 40% laboratory exercises and reports, 40% final examination. To be eligible to obtain a pass in this unit, students must achieve at least 50% in the practical component.

SLE010 Laboratory and Fieldwork Safety Induction Program

In SLE010, students will develop an awareness of safety measures and protocols to be followed in scientific laboratory work and fieldwork. The unit encompasses information about biological and chemical hazards, building evacuation procedures, laboratory accident management, first aid procedures and safety work procedures. Attendance in all practical classes and/or field trips may be restricted unless you have passed the online quiz with a mark of 70% or greater. Results for all units requiring the completion of SLE010 as a co-requisite may not be released until the quiz is passed.

Assessment: 100% multiple-choice examination (60 minutes) to be completed by the end of week 2. To be eligible to obtain a pass in this unit students must achieve a minimum mark of 70%. Multiple attempts at the quiz are allowed and students will print a certificate which is valid for three years.