

**DEAKIN  
COLLEGE**  
in association with



# **Diploma of Health Sciences**

## **Course Outline**

**Trimester 2 2023**

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## Diploma of Health Sciences

### Course Outline Trimester 1 2023

<b>Campus</b>	Melbourne Burwood Campus / Geelong Wearn Ponds Campus
<b>Intake</b>	March, June, October
<b>CRICOS</b>	059996G
<b>Course Duration and Structure</b>	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). Eight units must be completed and passed to be awarded the Diploma.
<b>Modes of Delivery</b>	<b>On Campus:</b> Generally, four hours of class contact per week are allocated to each unit. Some units have additional laboratory hours/practical classes.  <b>Online:</b> Weekly self-directed study + one hour of scheduled contact per week administered online (Zoom/MsTeams). Some units have additional laboratory hours/practical classes which students will be <b>required to attend on-campus</b> . (Available to domestic Students Only)
<b>Assessment</b>	Assessment for all units is ongoing and continuous consisting of tests, assignments and case study analysis. Most units have a final two-hour examination.  Both on campus and online students are expected to complete assessments as per the scheduled dates provided in Unit Outlines and/or the exam timetable.
<b>Study Load</b>	If you are a <b>domestic student</b> , you can enrol in 1 to 4 units, also known as modules (25%-100% study load) each trimester. If you are seeking Centrelink assistance, you must enrol in 3 or 4 units.  If you are an <b>international student</b> , it is required that you enrol in 3 or 4 units, also known as modules, (75%-100% study load) per trimester in order to meet progression requirements to Deakin University, as outlined in your offer letter.
<b>Units</b>	HBS107 Understanding Health HBS108 Health Information and Data HBS109 Introduction to Anatomy and Physiology ✕ HBS110 Health Behaviour HPS111 Introduction to Psychology: Fundamentals of Human Behaviour ✕ HPS121 Introduction to Psychology: Individual and Social Development ✕ HSE102 Functional Human Anatomy ✕ ✕ HSE104 Research Methods and Data Analysis in Exercise and Sport ✕ HSE111 Physical Activity and Exercise for Health ✕ HSE113 Human Growth, Development and Aging for Exercise Scientists ✕ HSH102 Disease Prevention and Control ✕ HSH112 Local and Global Environments for Health ✕

	<p>HSN101 Foundations of Food, Nutrition and Health ✕          HSN105 Healthy and Sustainable Food Systems ✕          HSN107 Physiology of Human Growth and Development ✕          SLE111 Cells and Genes ‡ ¥          SLE115 Essential Skills in Bioscience ¥          SLE123 Physics for Life Sciences          SLE133 Chemistry in Our World ‡ ¥          SLE132 Biology: Form and Function ‡ ¥          SLE155 Chemistry for the Professional Sciences * ‡ ¥</p> <p>Students wishing to transfer to Bachelor of Biomedical Science must complete STP050 Academic Integrity (zero credit point unit).</p> <p>Students wishing to transfer to Bachelor of Health Science/Nutrition Science/Psychological Science/Public Health and Health Promotion/Exercise and Sport Science must complete HAI010 Academic Integrity (zero credit point unit).</p> <p>* You must successfully complete SLE133 Chemistry in our World before enrolling in SLE155 Chemistry for the Professional Sciences (Pre-requisite)</p> <p>✕ This unit may not be offered every trimester.</p> <p>‡ All students who study these units must complete a Laboratory and Fieldwork Safety Induction Program (SLE010 for SLE111, SLE132, SLE133, SLE155 units), which is a compulsory safety training program (zero credit point unit).</p> <p>¥ All students who study these units must attend one or more on-campus sessions. Please refer to unit outlines for unit specific details.</p>
<p><b>Units with on-campus requirements</b></p>	<p>HBS109 – All students regardless of study mode will be required to attend 4 on campus practical sessions per trimester. The exact dates will be communicated to students at the start of the trimester.</p> <p>HSE102 – All students regardless of study mode will be required to attend 2 on-campus practical sessions per trimester as well as an on-campus practical examination in week 12. The exact dates will be communicated to students at the start of the trimester.</p> <p>SLE111 – All students regardless of study mode will be required to attend 5 on campus practical sessions per trimester. The exact dates will be communicated to students at the start of the trimester.</p> <p>SLE115 – All students regardless of study mode will be required to attend 1 day on campus to complete a mandatory assessment/presentation per trimester. The exact date will be communicated to students at the start of the trimester</p> <p>SLE132 – All students regardless of study mode will be required to attend 5 on campus practical sessions per trimester. The exact dates will be communicated to students at the start of the trimester.</p> <p>SLE133 – All students regardless of study mode will be required to attend 5 on campus practical sessions per trimester. The exact dates will be communicated to students at the start of the trimester.</p>

	<p>SLE155 – All students regardless of study mode will be required to attend 5 on campus practical sessions per trimester. The exact dates will be communicated to students at the start of the trimester.</p> <p>If you have any questions regarding these units, please reach out to your Academic Coordinator</p> <p>Note: Requirements are subject to change</p>
<p><b>Transfer to Deakin University</b></p>	<p>The following transfer criteria apply:</p> <ul style="list-style-type: none"> <li>• You must complete and pass eight Deakin College Diploma of Health Sciences units.</li> <li>• 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 University degree on the following pages).</li> </ul> <p>* Successful transfer to some degrees, specific Deakin College units to be completed in order to receive the appropriate credits (see Deakin University degrees below).</p>

## Diploma of Health Sciences

### 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 Health Sciences. Please note that core and elective units can be taken in any order, except for Chemistry. In Chemistry SLE133 Chemistry in our World must be successfully completed before students enrol in SLE155 Chemistry for the Professional Sciences. The following course plans should be used as a guide only.

#### Deakin University Bachelor Course Pathways

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 Biomedical Science
- Bachelor of Exercise and Sport Science
- Bachelor of Nutrition Science
- Bachelor of Health Sciences
- Bachelor of Psychological Science
- Bachelor of Public Health and Health Promotion

#### Required 0 credit point units

There are three zero credit point units offered in the Diploma of Health Science. They do not count towards your eight units undertaken as a part of your diploma and are offered at no cost.

Unit	Required for	Trimester 1 2023	Trimester 2 2023	Trimester 3 2023
SLE010 Laboratory and Fieldwork safety unit	Students should enrol in SLE010 if they are enrolling in SLE111, SLE132 or SLE133	✓	✓	✓
HAI010	<b>All students should enrol in HAI010 unless they are planning on transferring to the Bachelor of Biomedical Science</b>	✓	✓	✓
STP050 Academic Integrity	Students should enrol in STP050 if they are planning to transfer into the Bachelor of Biomedical Science	✓	✓	✓

## Unit Availability - Diploma of Health Sciences Burwood

Unit	Trimester 2 2023	Trimester 3 2023	Trimester 1 2023
HBS107 Understanding Health	✓	✓	✓
HBS108 Health Information Data	✓	✓	✓
HBS109 Introduction to Anatomy and Physiology	✓	✓	✓
HBS110 Health Behaviour	✓	✓	✓
HSE102 Functional Anatomy	✓	✓	✓
HSE104 Research Methods and Data Analysis in Exercise and Sport	✓	✓	✓
HSE111 Physical Activity and Exercise for Health	✓	✓	✓
HSE113 Human Growth, Development and Aging for Exercise Scientists	✓	✓	✓
HPS111 Introduction to Psychology: Fundamentals of Human Behaviour	✓	✓	✓
HPS121 Introduction to Psychology: Individual and Social Development	✓	✓	✓
HSN101 Foundations of Food Nutrition and Health	✓	✓	✓
HSN105 Healthy and Sustainable Food Systems	✓	✓	✓
HSN107 Physiology of Human Growth and Development	✓	✓	✓
HSH102 Disease Prevention and Control	✓	✓	✓
HSH112 Local and Global Environments for Health	✓	✓	✓
SLE133 Chemistry of our World	✓	✓	✓
SLE155 Chemistry for the Professional Sciences	✓	✓	✓
SLE111 Cells and Genes	✓	✓	✓
SLE115 Essential Skills in Bioscience	✓	✓	✓
SLE132 Biology Form and Function	✓	✓	✓
SLE123 Physics for the Life Sciences	✓	✓	✓



## Unit Availability - Diploma of Health Sciences Waurin Ponds (Geelong)

Unit	Trimester 2 2023	Trimester 3 2023	Trimester 1 2024
HBS107 Understanding Health	✓	✓	✓
HBS108 Health Information Data	✓	✓	✓
HBS109 Introduction to Anatomy and Physiology	✓	✓	✓
HBS110 Health Behaviour	✓	✓	✓
HSE102 Functional Anatomy	✓	✓	✗
HSE104 Research Methods and Statistics in Exercise and Sport	✓	✓	✗
HSE111 Physical Activity and Exercise for Health	✓	✗	✓
HSE113 Human Growth, Development and Aging for Exercise Scientists	✗	✓	✗
HPS111 Psychology A	✗	✓	✗
HPS121 Psychology B	✓	✗	✓
HSN101 Foundations of Food Nutrition and Health	✗	✓	✓
HSN105 Healthy and Sustainable Food Systems	✓	✗	✓
HSN107 Physiology of Human Growth and Development	✗	✓	✗
HSH102 Disease Prevention and Control	✗	✓	✗
HSH112 Local and Global Environments for Health	✓	✗	✓
SLE133 Chemistry of our World	✓	✓	✓
SLE155 Chemistry for the Professional Sciences	✓	✓	✓
SLE111 Cells and Genes	✓	✓	✓
SLE115 Essential Skills in Bioscience	✓	✓	✓
SLE132 Biology Form and Function	✓	✓	✓
SLE123 Physics for the Life Sciences	✓	✓	✓

## Course Plan: Bachelor of Exercise and Sport Science

When I transfer to Deakin University I want to study

**Bachelor of Exercise and Sport Science (B, WP)**

**Entry to Deakin University T1, T2**

International Students WAM: Burwood (B) 50	Waurm Ponds (WP) 50
Local/Australian Students WAM: Burwood (B) 50	Waurm Ponds (WP) 50

**Majors offered to Deakin College students at Deakin University include (majors are optional)**

● Exercise Physiology (B, WP) ● Applied Sport Science (B, WP) ● Physical Activity and Health (B, WP) ● Sports Nutrition (B, WP) ● Sports Coaching (B, WP)# ● Strength and Conditioning (B, WP) ● Nutrition (B, WP) ● Master of Dietetics pre-requisite(B, WP)\*\*\*\* ) ● Psychology (B, WP) ● Disability and Inclusion (B) ● Family Society and Health (B) ● Health Promotion (B, WP)

Fast Track (Completing In 8 months/2 trimesters)					
1 <sup>st</sup> Trimester	<b>CORE</b> HSE111 Physical Activity and Exercise for Health	<b>CORE</b> HBS109 Introduction to Anatomy and Physiology	<b>Elective</b>	<b>Elective</b>	<b>Zero credit point unit</b> HAI010 Academic Integrity
2 <sup>nd</sup> Trimester	<b>CORE</b> HSE104 Research Methods and Data Analysis in Exercise and Sport	<b>CORE</b> HSE102 Functional Anatomy	<b>CORE</b> HSE113 Human Growth, Development and Aging for Exercise Scientists <b>Elective</b>	<b>Elective</b>	

Normal Track (Completing course in 12 months/ 3 Trimesters)				
1 <sup>st</sup> Trimester	<b>CORE</b> HSE111 Physical Activity and Exercise for Health	<b>CORE</b> HBS109 Introduction to Anatomy and Physiology	<b>Elective</b>	<b>Zero credit point unit</b> HAI010 Academic Integrity
2 <sup>nd</sup> Trimester	<b>CORE</b> HSE113 Human Growth, Development and Aging for Exercise Scientists	<b>Elective</b>	<b>Elective</b>	
3 <sup>rd</sup> Trimester	<b>CORE</b> HSE104 Research Methods and Data Analysis in Exercise and Sport	<b>CORE</b> HSE102 Functional Anatomy		

**Note: Gelong student will need to adjust this course structure according to course availability across trimesters.**

**# Students wishing to do Sports Coaching or Sport nutrition as majors may need to take an extra trimester at Deakin to complete their degree.**

**\*\*\* Students wishing to apply for the Master of Dietetics must undertake an extra unit at Deakin University as a part of the Bachelor of Exercise and Sport Nutrition which will be charged at full fee paying rate. See required elective units over page**

Electives for specific majors:

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

- Sports Nutrition (B, WP) – HSN101 Foundation of Food Nutrition and Health
- Master of Dietetics pre-requisite and Nutrition Major – SLE133 Chemistry in Our World, SLE155 Chemistry for the Professional Sciences, HSN101 Foundations of Food Nutrition and Health
- Nutrition (B, WP) - HSN101 Foundations of Food, Nutrition and Health
- Psychology (B, WP) – HPS111 Introduction to Psychology: Fundamentals of Human Behaviour: Fundamentals of Human Behaviour: HPS121 Introduction to Psychology: Individual and Social Development
- Health Promotion (B) – HSH102 Disease Prevention and Control

Other electives can include any of the following:

- HBS107 Understanding Health
- HBS108 Health Information and Data
- HBS110 Health Behaviour
- HPS111 Introduction to Psychology: Fundamentals of Human Behaviour
- HPS121 Introduction to Psychology: Individual and Social Development
- HSH102 Disease Prevention and Control
- HSH112 Local and Global Environments for Health
- HSN101 Foundations of Food, Nutrition and Health
- HSN105 Healthy and Sustainable Food Systems
- HSN107 Physiology of Human Growth and Development
- SLE111 Cells and Genes\*
- SLE132 Biology: Form and Function\*
- SLE115 Essential Skills in Bioscience
- SLE133 Chemistry in our World\*
- SLE155 Chemistry for the Professional Sciences\*\*
- SLE123 Physics for the life sciences

\* For SLE111, SLE132 & SLE133 you must complete SLE010 Fieldwork and Laboratory Safety 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 will need to undertake HSE010 Exercise and Sport Laboratory Safety and HSE103 Essentials of Exercise Delivery at Deakin University.

Students wishing to undertake the majors listed below will need to complete additional first year units.

Major	Additional Units
Applied Sports Science (B, WP)	HSE105 Principles of Sports Coaching
Exercise Physiology (B, WP)	HSE110 Muscle Biology for Exercise Science
Physical Activity and Health (B, WP)	HSE112 Pathways in the Physical Activity Exercise and Health Industry
Sports Coaching (B, WP)	HSE105 Principles of Sport Coaching
Strength and Conditioning (B, WP)	HSE105 Principles of Sports Coaching
Family Society and Health (B)	HSH105 Understanding Families and Health HSH113 Social Perspectives on Population Health
Disability and Inclusion (B)	HDS101 Communication and Diversity, HDS106 Diversity, Disability and Social Inclusion
Health Promotion (B, WP)	HSH103 Health Protection

## Course Plan: Bachelor of Nutrition Science

When I transfer to Deakin University I want to study

**Bachelor of Nutrition Science (B)**

**Entry to Deakin University T1, T2**

International Students WAM: Burwood (B) 50

Local/Australian Students WAM: Burwood (B) 50

**Majors offered at Deakin University include (Students do not have to complete a major but are recommended to complete the Food Innovation Major)**

● **Food Innovation (B) Highly Recommended** ● Disability and Inclusion (B) ● Exercise Science (B) ● Health Promotion (B) ● Physical Activity and Health (B) ● Family, Society and Health (B) ● Psychology (B) ● Master of Dietetics Pre-requisites

Fast Track (Completing In 8 months/2 trimesters)						
1 <sup>st</sup> Trimester	<b>CORE</b> HBS109 Introduction to Anatomy and Physiology	<b>CORE</b> HSN101 Foundations of Food Nutrition & Health	<b>CORE</b> SLE133 Chemistry in our World*	<b>Elective</b>	<b>Zero credit point unit</b> SLE010 Fieldwork and Laboratory Safety	<b>Zero credit point unit</b> HAI0101 Academic Integrity
2 <sup>nd</sup> Trimester	<b>CORE</b> HSN105 Healthy and Sustainable Food Systems	<b>CORE</b> HSN107 Physiology of Human Growth and Development	<b>Elective</b> SLE155 Chemistry for the Professional Sciences*	<b>Elective</b>		

Normal Track (Completing course in 12 months/ 3 Trimesters)					
1 <sup>st</sup> Trimester	<b>CORE</b> HBS109 Introduction to anatomy and physiology	<b>CORE</b> SLE133 Chemistry in Our World*	<b>Elective</b>	<b>Zero credit point unit</b> SLE010 Fieldwork and Laboratory Safety	<b>Zero credit point unit</b> HAI010 Academic Integrity
2 <sup>nd</sup> Trimester	<b>CORE</b> HSN101 Foundations of Food Nutrition and Health	<b>CORE</b> HSN105 Healthy and Sustainable Food Systems	<b>Elective</b>		
3 <sup>rd</sup> Trimester	<b>CORE</b> HSN107 Physiology of Human Growth and Development	<b>Recommended Elective</b> SLE155 Chemistry for the Professional Sciences**	<b>**Students who want to complete H718 Master of Dietetics pre-requisites must enrol in SLE155 Chemistry for the Professional Sciences</b>		

**Note: Gelong student will need to adjust this course structure according to course availability across trimesters.**

## Electives for specific majors:

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

- Exercise Science – HSE102 Functional Anatomy
- Health Promotion – HSH112 Local and Global Environments for Health
- Physical Activity and Health – HSE111 Physical Activity and Exercise for Health
- Psychology (B, WP) – HPS111 Introduction to Psychology: Fundamentals of Human Behaviour, HPS121 Introduction to Psychology: Individual and Social Development

## Other Electives can include any of the following:

- HBS107 Understanding Health
- HBS108 Health Information and Data
- HBS110 Health Behaviour
- HPS111 Introduction to Psychology: Fundamentals of Human Behaviour
- HPS121 Introduction to Psychology: Individual and Social Development
- HSE102 Functional Anatomy
- HSE104 Research Methods and Data Analysis in Exercise and Sport
- HSE111 Physical Activity and Exercise for Health
- HSE113 Human Growth, Development and Aging for Exercise Scientists
- SLE111 Cells and Genes\*
- HSH102 Disease Prevention and Control
- HSH112 Local and Global Environments for Health
- SLE132 Biology: Form and Function\*
- SLE115 Essential Skills in Bioscience
- SLE123 Physics for the life sciences

\* For SLE111, SLE132 and SLE133 you must complete SLE010 Fieldwork and Laboratory Safety 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 will need to undertake HSN104 - The Science of Food and HSN106 - Food Fundamentals at Deakin University.

Students wishing to undertake the majors listed below will need to complete additional first year units at Deakin:

Major	Additional Units
Disability and Inclusion (B)	HDS101 Communication and Diversity, HDS106 Diversity, Disability and Social Inclusion
Family Society and Health (B)	HSH105 Understanding Families and Health HSH113 Social Perspectives on Population Health
Physical Activity and Health (B)	HSE112 Pathways in the Physical Activity, Exercise and Health Industry
Health Promotion (B)	HSH113 Social Perspectives on Population Health

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## Course Plan: Bachelor of Psychological Science

When I transfer to Deakin University I want to study:

**Bachelor of Psychological Science (B, WP, WB, C)**

**Entry to Deakin University - Local students T1, T2, T3 (all campuses)**

**Entry to Deakin University - International students T1 (Burwood), T2 (Burwood, Waurn Ponds)**

International Students WAM: Burwood (B) 50 Waurn Ponds (WP) 50  
 Local/Australian Students WAM: Burwood (B) 50 Waurn Ponds (WP) 50 Warrnambool (WB) 50  
 Cloud (C) 50

**Optional Majors offered at Deakin University include**

- Forensic Studies (B, WP)
- Child and Family (B, WP)
- Organisational Studies (B)

Fast Track (Completing In 8 months/2 trimesters)					
1 <sup>st</sup> Trimester	<b>CORE</b> HBS 107 Understanding Health	<b>CORE</b> HPS111 Introduction to Psychology: Fundamentals of Human Behaviour	<b>CORE</b> HBS110 Health Behaviour	<b>Elective</b>	<b>Zero credit point unit</b> HAI010 Academic Integrity
2 <sup>nd</sup> Trimester	<b>CORE</b> HBS108 Health Information and Data	<b>CORE</b> HPS121 Introduction to Psychology: Individual and Social Development	<b>Elective</b>	<b>Elective</b>	

Normal Track (Completing course in 12 months/ 3 Trimesters)				
1 <sup>st</sup> Trimester	<b>CORE</b> HBS 107 Understanding Health	<b>CORE</b> HPS111 Introduction to Psychology: Fundamentals of Human Behaviour	<b>CORE</b> HBS110 Health Behaviour	<b>Zero credit point unit</b> HAI010 Academic Integrity
2 <sup>nd</sup> Trimester	<b>CORE</b> HBS108 Health Information and Data	<b>CORE</b> HPS121 Introduction to Psychology: Individual and Social Development	<b>Elective</b>	
3 <sup>rd</sup> Trimester	<b>Elective</b>	<b>Elective</b>		

**Note: Gelong student will need to adjust this course structure according to course availability across trimesters.**



**Electives can include any of the following:**

- HBS109 Introduction to anatomy and physiology
- HSE102 Functional Human Anatomy
- HSE104 Research Methods and Data Analysis in Exercise and Sport
- HSE111 Physical Activity and Exercise for Health
- HSE113 Human Growth, Development and Aging for Exercise Scientists
- HSH102 Disease Prevention and Control
- HSH112 Local and Global Environments for Health
- HSN101 Foundations of Food, Nutrition and Health
- HSN105 Healthy and Sustainable Food Systems
- HSN107 Physiology of Human Growth and Development
- SLE111 Cells and Genes\*
- SLE132 Biology: Form and Function\*
- SLE115 Essential Skills in Bioscience
- SLE133 Chemistry in our World\*
- SLE155 Chemistry for the Professional Sciences\*\*
- SLE123 Physics for the life sciences

\* For SLE111, SLE132 and SLE133 you must complete SLE010 Fieldwork and Laboratory Safety 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 first year units at Deakin. This should not add to the time taken to complete the Bachelor degree:

Major	Additional first year units
Forensic Studies	ACR101 Introducing Crime and Criminology; ACR102 Introducing Crime and Criminal Justice
Child and Family	HSH105 Understanding Families and Health; HPS105 Foundations of Psychological Practice
Organisational Studies	MMM132 Management

## Course Plan: Bachelor of Health Science

When I transfer to Deakin University I want to study:

**Bachelor of Health Sciences (B, WP, WB, C)**

**Entry to Deakin University Local students T1, T2 (all campuses); T3 (Burwood, Waurn Ponds, Cloud)**

**Entry to Deakin University International students T1, T2, T3 (Burwood, Waurn Ponds)**

International Students WAM: Burwood (B) 50 Waurn Ponds (WP) 50  
 Local/Australian Students WAM: Burwood (B) 50 Waurn Ponds (WP) 50 Warrnambool (WB) 50  
 Cloud (C) 50

**Majors offered at Deakin University include (students are required to complete 2 majors)**

- Environmental Health (B, WP) ● Exercise Science (B, WP C) ● Family Society and Health (B C) ● Food Studies (B) ● Health Promotion (B WP WB C) ● Health, Nature and Sustainability (B) ● Medical Biotechnology (B, WP) ● Nutrition (B, WP, WB C) ● Disability and Inclusion (B C) ● Physical Activity and Health (B, WP, WB) ● Psychological Science (B, WP, WB C) (10 credit point major) ● Psychology for Allied Health (B, WP, WB C) ● Public Health (B, WP, C)

Fast Track (Completing In 8 months/2 trimesters)					
1 <sup>st</sup> Trimester	<b>CORE</b> HBS 107 Understanding Health	<b>Elective</b>	<b>Elective</b>	<b>Elective</b>	<b>Zero credit point unit</b> HAI010 Academic Integrity
2 <sup>nd</sup> Trimester	<b>CORE</b> HBS108 Health Info and Data	<b>Elective</b>	<b>Elective</b>	<b>Elective</b>	

Normal Track (Completing course in 12 months/ 3 Trimesters)				
1 <sup>st</sup> Trimester	<b>CORE</b> HBS 107 Understanding Health	<b>Elective</b>	<b>Elective</b>	<b>Zero credit point unit</b> HAI010 Academic Integrity
2 <sup>nd</sup> Trimester	<b>CORE</b> HBS108 Health Info and Data	<b>Elective</b>	<b>Elective</b>	
3 <sup>rd</sup> Trimester	<b>Elective</b>	<b>Elective</b>		

**Note: Gelong student will need to adjust this course structure according to course availability across trimesters.**

## Electives for specific majors:

Students wishing to complete a **major** in the following areas should include the following units in their electives:

- Environmental Health (B WP) – SLE111 Cells and Genes, HSN101: Foundations of Food Nutrition and Health
- Exercise Science (B, WP C) – HSE102 Functional Anatomy, HBS109 Introduction to anatomy and physiology
- Food Studies (B) – HSN101 Foundations of Food, Nutrition and Health
- Health Promotion (B, WP, WB C) – HSH112 Local and Global Environments for Health
- Health, Nature and Sustainability (B) – HSH112 Local and Global Environments for Health
- Physical Activity and Health (B, WP, WB) – HSE111 Physical Activity and Exercise for Health
- Nutrition (B, WP, WB)– HSN101 Foundations of Food, Nutrition and Health, HBS109 Introduction to anatomy and physiology
- Psychological Science (B, WP, WB C) – HPS111 Introduction to Psychology: Fundamentals of Human Behaviour and HPS121 Introduction to Psychology: Individual and Social Development
- Psychology for Allied Health (B, WP, WB C)– HBS110 Health Behaviour
- Public Health (B, WP, WB, C) - HSH102 Disease Prevention and Control

## Electives for minors

Students wishing to complete a **minor** in the following areas should include the following units in their electives:

- Exercise Science (B, WP C) – HBS109 Introduction to anatomy and physiology
- Health Promotion (B, WP, WB C) – HSH102 Disease Prevention and Control
- Public Health (B, WP, WB C) – HSH102 Disease Prevention and Control
- Physical Activity and Health (B, WP, WB) – HSE111 Physical Activity and Exercise for Health
- Food Studies (B) – HSN101 Foundations of Food, Nutrition and Health
- Nutrition (B, WP, WB)– HSN101 Foundations of Food, Nutrition and Health, HBS109 Introduction to anatomy and physiology
- Health, Nature and Sustainability (B) – HSH112 Local and Global Environments for Health
- Psychology for Allied Health (B WP WB C) – HBS110 Health Behaviour

## Master of Dietetics Pre-requisites

Students wishing to apply for a Master of Dietetics need to complete:

SLE133 Chemistry in Our World, SLE155 Chemistry for the Professional Sciences, HSN101 Foundations of Food, Nutrition and Health and at least two of HBS109 Introduction to Anatomy and Physiology, HSN107 Physiology of Human Growth and Development, HSE102 Functional Anatomy, SLE111 Cells and Genes. Students are recommended to take a Food Science and/or Nutrition major (note students must complete two majors in Bachelor of Health Science). Students will be required to complete HSN104 The Science of Food as part of their 2<sup>nd</sup> year at Deakin University.

## Other Electives can include any of the following:

- HBS109 Introduction to Anatomy and Physiology
- HBS110 Health Behaviour
- HPS111 Introduction to Psychology: Fundamentals of Human Behaviour

- HPS121 Introduction to Psychology: Individual and Social Development
- HSH102 Disease Prevention and Control
- HSE102 Functional Human Anatomy
- HSE104 Research Methods and Data Analysis in Exercise and Sport
- HSE111 Physical Activity and Exercise for Health
- HSE113 Human Growth, Development and Aging for Exercise Scientists
- HSH112 Local and Global Environments for Health
- HSN101 Foundations of Food, Nutrition and Health
- HSN105 Healthy and Sustainable Food Systems
- HSN107 Physiology of Human Growth and Development
- SLE111 Cells and Genes\*
- SLE132 Biology: Form and Function\*
- SLE115 Essential Skills in Bioscience
- SLE133 Chemistry in our World\*
- SLE155 Chemistry for the Professional Sciences\*\*
- SLE123 Physics for the life sciences

\* For SLE111, SLE132 and SLE133 you must complete SLE010 Fieldwork and Laboratory Safety 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/minors listed below will need to complete additional units

Major	Additional Units
Family Society and Health (B, C)	HSH105 Understanding Families and Health HSH113 Social Perspectives on Population Health
Food Studies (B)	HSN104 Science of Food
Health, Nature and Sustainability (B)	IND101 Introduction to Aboriginal Studies
Medical Biotechnology (B, WP)	HMM101 Introduction to Medical Biotechnology HMM102 Principles of Gene and Genomic Technology
Disability and Inclusion (B C)	HDS101 Communication and Diversity HDS106 Diversity, Disability and Social Inclusion
Physical Activity and Health (B, WP, WB, C)	HSH112 Pathways in the Physical Activity, Exercise and Health Industry
Health Promotion	HSH113 Social Perspectives on Population Health
Public Health	HSH103 Health Protection
Minor	Additional Units
Family Society and Health (B, C)	HSH105 Understanding Families and Health
Food Studies (B)	HSN104 Science of Food
Medical Biotechnology (B, WP)	HMM101 Introduction to Medical Biotechnology HMM102 Principles of Gene and Genomic Technology
Disability and Inclusion – inclusive services and advocacy (B C)	HDS101 Communication and Diversity HDS106 Diversity, Disability and Social Inclusion
Disability and Inclusion – inclusion practise in diverse professions (B C)	HDS101 Communication and Diversity HDS106 Diversity, Disability and Social Inclusion

## Course Plan: Bachelor of Biomedical Science

When I transfer to Deakin University I want to study

**Bachelor of Biomedical Science (B, WP)**

**Entry to Deakin University T1, T2**

International Students WAM: Burwood (B) 50 Waurm Ponds (WP) 50

Local/Australian Students WAM: Burwood (B) 70 Waurm Ponds (WP) 60

**Majors offered at Deakin University include (students are required to complete one major)\***

- Molecular Life Sciences (B, WP)
- Environmental Health (B, WP)
- Infection and Immunity (B, WP)
- Medical Biotechnology (B, WP)
- Medical Genomics (B, WP)
- Pharmaceutical Science (B, WP)

Fast Track (Completing In 8 months/2 trimesters)						
1 <sup>st</sup> Trimester	<b>CORE</b> SLE133 Chemistry in Our World*	<b>CORE</b> SLE115 Essential Skills in Bioscience	<b>CORE</b> SLE111 Cells and Genes*	<b>Elective</b>	<b>Zero credit point unit</b> SLE010 Fieldwork and Laboratory Safety	<b>Zero credit point unit</b> STP050 Academic Integrity
2 <sup>nd</sup> Trimester	<b>CORE</b> SLE155 Chemistry for the Professional Sciences**	<b>CORE</b> SLE132 Form and Function	<b>CORE</b> SLE123 Physics for Life Sciences	<b>Elective</b>		

Normal Track (Completing course in 12 months/ 3 Trimesters)					
1 <sup>st</sup> Trimester	<b>CORE</b> SLE133 Chemistry in Our World*	<b>CORE</b> SLE115 Essential Skills in Bioscience	<b>Elective</b>	<b>Zero credit point unit</b> SLE010 Fieldwork and Laboratory Safety	<b>Zero credit point unit</b> STP050 Academic Integrity
2 <sup>nd</sup> Trimester	<b>CORE</b> SLE111 Cells and Genes*	<b>CORE</b> SLE132 Form and Function*	<b>CORE</b> SLE123 Physics for Life Sciences		
3 <sup>rd</sup> Trimester	<b>Elective</b>	<b>CORE</b> SLE155 Chemistry for the Professional Sciences**			

**Note: Gelong student will need to adjust this course structure according to course availability across trimesters.**

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\* For SLE111, SLE132 and SLE133 you must complete SLE010 Fieldwork and Laboratory Safety 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)

### **Electives for Major in Environmental Health (B, WP)**

Recommended majors are Molecular Life Sciences, Environmental health <sup>##</sup> or Pharmaceutical Science. Choosing other majors will increase the time taken to complete the Bachelor degree. Students who are planning to major in Environmental Health (B, WP) 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 Introduction to Anatomy and Physiology
- HBS108 Health Information and Data
- HBS110 Health Behaviour
- HPS111 Introduction to Psychology: Fundamentals of Human Behaviour
- HPS121 Introduction to Psychology: Individual and Social Development
- HSE102 Functional Human Anatomy
- HSE104 Research Methods and Data Analysis in Exercise and Sport
- HSE111 Physical Activity and Exercise for Health
- HSE113 Human Growth, Development and Aging for Exercise Scientists
- HSH102 Disease Prevention and Control
- HSH112 Local and Global Environments for Health
- HSN101 Foundations of Food, Nutrition and Health
- HSN105 Healthy and Sustainable Food Systems
- HSN107 Physiology of Human Growth and Development

### **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 (B, WP)	HMM103 Cell Technology
Medical Biotechnology (B, WP)	HMM101 Introduction to Biotechnology and HMM102 Principles of Gene and Genomic Technology
Medical Genomics (B, WP)	HMM102 Principles of Gene and Genomic Technology

## Course Plan: Bachelor of Public Health and Health Promotion

When I transfer to Deakin University I want to study

**Bachelor of Public Health and Health Promotion (B, WP – Local and International Students)**

**Deakin University Entry T1, T2**

International Students WAM:	Burwood (B) 50	Waurin Ponds (WP) 50
Local/Australian Students WAM:	Burwood (B) 50	Waurin Ponds (WP) 50 Cloud (C) 50

*Majors are available but are optional – see majors listed in the Bachelor of Health Science*

Fast Track (Completing In 8 months/2 trimesters)					
1 <sup>st</sup> Trimester	<b>CORE</b> HBS 107 Understanding Health	<b>CORE</b> HSH102 Disease Prevention and Control	<b>Elective</b>	<b>Elective</b>	<b>Zero credit point unit</b> HAI010 Academic Integrity
2 <sup>nd</sup> Trimester	<b>CORE</b> HBS 108 Health Information and Data	<b>CORE</b> HSH112 Local and Global Environments for Health	<b>Elective</b>	<b>Elective</b>	

Normal Track (Completing course in 12 months/ 3 Trimesters)				
1 <sup>st</sup> Trimester	<b>CORE</b> HBS 107 Understanding Health	<b>CORE</b> HSH102 Disease Prevention and Control	<b>Elective</b>	<b>Zero credit point unit</b> HAI010 Academic Integrity
2 <sup>nd</sup> Trimester	<b>CORE</b> HBS 108 Health Information and Data	<b>CORE</b> HSH112 Local and Global Environments for Health	<b>Elective</b>	
3 <sup>rd</sup> Trimester	<b>Elective</b>	<b>Elective</b>		

**Note: Gelong student will need to adjust this course structure according to course availability across trimesters.**



**Electives can include any of the following:**

- HBS109 Introduction to Anatomy and Physiology
- HPS111 Introduction to Psychology: Fundamentals of Human Behaviour
- HPS121 Introduction to Psychology: Individual and Social Development
- HSE102 Functional Human Anatomy
- HSE104 Research Methods and Data Analysis in Exercise and Sport
- HSE111 Physical Activity and Exercise for Health
- HSE113 Human Growth, Development and Aging for Exercise Scientists
- HSN101 Foundations of Food, Nutrition and Health
- HSN105 Healthy and Sustainable Food Systems
- HSN107 Physiology of Human Growth and Development
- SLE111 Cells and Genes\*
- SLE132 Biology: Form and Function\*
- SLE115 Essential Skills in Bioscience
- SLE133 Chemistry in our World\*
- SLE155 Chemistry for the Professional Sciences\*\*
- SLE123 Physics for the life sciences

\* For SLE111, SLE132 and SLE133 you must complete SLE010 Fieldwork and Laboratory Safety 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 will need to undertake HSH113 Social Perspectives on Population Health and HSH103 Health Protection at Deakin University.

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## **Deakin University Campuses and Trimester codes**

**B** Melbourne Burwood Campus **WP** Geelong Waurn Ponds Campus **WB** Warrnambool Campus **C** Cloud

**T1** Trimester 1 entry **T2** Trimester 2 entry **T3** Trimester 3

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

CRICOS Codes: Bachelor of Arts (Psychology) 077384J, Bachelor of Biomedical Science 058793E, Bachelor of Exercise and Sport Science 045332G, Bachelor of Food and Nutrition Sciences 079318C, Bachelor of Health Sciences 052823G, Bachelor of Nursing 018327G, Bachelor of Psychological Science 079316E, Bachelor of Public Health and Health Promotion 012753D, Bachelor of Sport Development 058665B

## Unit Outlines

PLEASE ENSURE YOU CHECK THE TRIMESTER 1 2023 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 task 1: Self-awareness audit and reflection (1000 words) 25%; Assessment task 2: health plan review (1600 words) 40%; Assessment task 3: group oral presentation 35%**

### HBS108 Health Information and Data

In this unit you will learn about using online resources to search for, retrieve and evaluate a range of health information and data. The emphasis in this unit is the comprehension and critical appraisal of health information. It is important for health students and practitioners to be able to distinguish valid, well-researched health claims from poorly researched (or not researched at all), spurious health claims.

The unit comprises nine topics, covering: measuring health and disease in populations, introduction to qualitative research, study design, obtaining online health information, evaluating popular health claims, introduction to quantitative research, evidence based practice including critical appraisal.

**Assessment: Assessment task 1 – assignment (800 words) 20%, Assessment task 2 – assignment (1200 words) 40%, Final examination 40%**

### HBS109 Introduction to Anatomy and Physiology\*#

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, including cardiovascular, respiratory, digestive, urinary and immune systems.

**Assessment: Introductory written assignment (15%), Homeostasis Assignment (20%), Case based learning (35%), Final exam 30%**

### HBS110 Health Behaviour

This unit explores relevant health behaviour issues and their impact on an individual's health and wellbeing. These behavioural issues include: tobacco smoking, alcohol / drug use and abuse, healthy and disordered eating, weight management, engagement in exercise, managing stress, and managing chronic illness.

The unit examines the impact of socio-cognitive factors including self-efficacy and locus of control on behaviour change and how to harness this to enhance behaviour change and goal achievement.

Furthermore the unit discusses theoretical explanations of health behaviour and how they are applied to derive effective approaches to achieving behaviour change. Students undertake experiential and reflective learning approaches to develop and understanding of the process, challenges and skills involved in health behaviour change.

**Assessment: Assessment tasks 1 and 2 – 2 Journal Posts (worth 25% each; 2 min video + 1500 words each); Assessment task 3 – 10 online quizzes (each worth 2%, total 20%); Final Examination (30%).**

## **HPS111 Introduction to Psychology: Fundamentals of Human Behaviour**

This introductory unit explores the fundamental principles underpinning the study of human psychology. As such, it will cover the definition and scope of the discipline of psychology; the primitive roots of our behaviour; the neurological structures and processes that are responsible for our mental life; and the important elements in our adapting to the world as individuals such as learning and intelligence.

This unit will provide an integrated and challenging introduction to psychology as a science, while also providing training in important skills for tertiary education as a whole through the seminar series. In completing this unit, students will gain new insights into the science of behaviour, a mastery of important research and writing skills, and a strong platform for learning advanced topics in psychology.

**Assessment task 1: Short Answer Booklet (500 words) 25%, Assessment task 2: Critical Response Essay (800 words) 35%, Assessment task 3: Multiple Choice Exam 40%**

## **HPS121 Introduction to Psychology: Individual and Social Development**

HPS121 focuses on different theoretical perspectives and psychological concepts relating to how we function as individuals in a social world. We begin by looking at how we - as both biological and social beings - develop throughout the lifespan as we explore the complex interaction between biological and environmental influences. Various theoretical perspectives are applied to explore what makes up our individual personalities, and how personality is assessed. The impact of psychological disorders on individual and societal wellbeing is considered, including the way we conceptualise mental illness, and the different therapeutic approaches used to treat these psychological disorders are analysed. We then examine the power of situational, societal, and cultural influences on behaviour.

**Assessment: Assessment tasks 1 and 2: Scientific Lab Report (Part A 25%), (Part B 25%); Assessment task 3: In class test 10% ; Assessment task 4: Final examination 40%**

## **HSE102 Functional Human Anatomy#**

This unit is designed to provide students with a comprehensive overview of the structure and function of the musculoskeletal system and how it relates to normal and abnormal human movement. A detailed analysis of the functional anatomy of the skeletal, articular, neural and muscular systems is explored. Additional areas explored will be the role that the musculoskeletal system plays in static and dynamic posture and movement control.

**Assessment: practical class worksheets (4 x 5%) 20%, Assessment task 2 – Seminar pop quizzes (4 x 5%) 20%, Assessment task 3 – Practical Examination (15 minutes) 30%, Final examination 30%**

## **HSE104 Research Methods and Data Analysis in Exercise and Sport**

This unit aims to develop students' knowledge and understanding of research design and methodology in the context of exercise and sport science (ESS). This will range from examining some different quality indicators such as validity and reliability to more applied work examining how to organise, analyse, interpret and present ESS research data. The unit will explore different ways that ESS research data are collected and analysed using both qualitative and quantitative statistical methods.

**Assessment: Assessment 1: Assignment (1000 words) 30%, Assessment 2: Assignment (1000 words) 30%, Final Examination 40%**

## **HSE111 Physical Activity and Exercise for Health**

This unit introduces students to the field of physical activity and exercise for health. Students will explore the benefits of physical activity and risks of sedentary behaviour and will gain an understanding of why people participate in physical activity and exercise. Common theories of behaviour change and key correlates of physical activity participation are explored and an introduction to physical activity interventions is provided. Throughout the unit, students are required to source and reflect on high quality evidence to advise a client and offer evidence-based suggestions for increasing their physical activity.

**Assessment: Assessment 1 Physical Activity report plan 10%, Assessment 2 Physical Activity Report**

**30%, Assessment 3 = 2 quizzes worth 15% each, Assessment 4 Exam 30%.**

### **HSE113 Human Growth, Development and Ageing for Exercise Scientists**

This unit aims to develop students' knowledge of the structural, physiological, social and cognitive changes in human growth, development and ageing across the lifespan (conception through to older adulthood). The unit will provide students with an understanding of the various stages of growth, development and ageing and identify common injuries or conditions that present during these stages. A key focus of the unit will be on how physical activity and exercise influences, and is influenced by, lifespan human growth, development and ageing

**Assessment: Assessment 1: 2 x Case study reports (800 words each) (10% and 20%) Total 30%, Assessment 2 Video critique (1200 words) 30%, Assessment 3 Career Education & Reflection (1000 words) 20%; Assessment 4 90 minute open book test 20%.**

### **HS1102 Disease Control and Prevention**

This unit is core to the Bachelor of Public Health and Health Promotion, the combined courses with Commerce and Nursing, and for the Health Promotion major pathway in the Bachelor of Health Sciences. The unit is also offered as an elective to students across the University. Through this unit, students will be introduced to applying theories, models and frameworks used in both public health and health promotion; examine multiple dimensions of disease prevention and control including biological, behavioural, socioeconomic, and environmental factors; as well as relevant ethical, social, legal and advocacy issues.

**Assessment 1: Written Report 40%, Assessment 2: Written Report 40%, Assessment 3: Written Response 20%**

### **HS112 Local and Global Environments**

This unit will introduce key concepts around environmental health and will explore the relationship between the natural, built, social, economic and political environments and human health. This unit will also introduce the concepts of sustainable development, ecosystem health and environmental justice. The content of the unit will be framed within a public health and health promotion context.

This unit comprises the study of: knowledge of past, present and emergent environmental health concerns, including infectious disease, population growth, urbanisation, global warming and drought; the role of the natural/physical, built, social, economic and political environments in human health threats; human impacts on the environment; critical reflection on the changing context of environments and health over time.

**Assessment: Assessment 1 (1500 word case study) 35%; Assessment 2 (2000 word case study) 45%; Assessment 3 (in class test) 20%.**

### **HS1101 Foundations of Food, Nutrition and Health**

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 – Written assignment (1300 words) 30%, Assessment task 2 – Case Study (800 words) 15%, Assessment Task 3 Career Activity and Reflection and Infogram (500 words) 20%, Final examination 35%**

## HSN105 Health and Sustainable Food Systems

Dietary patterns and the way food is produced can have a major impact on the environment and the environment has a major impact on the food system. This raises concerns about the food system's future ability to produce sufficient food for food and nutrition security. Governments, non-government organisations, academia, the private sector and citizens are urgently seeking solutions to these public health nutrition problems. This unit will explore the bidirectional relationship between our food system and environmental sustainability. It will examine how Australia's food system may be contributing to environmental degradation through greenhouse gas emissions, water use and ecosystem changes, such as the loss of biodiversity and how this impacts on health. In addition, it will examine the effects of global warming on the food system and the threats to food security. Following on from this, the unit will ascertain what changes are needed to ensure a prosperous and ecologically sustainable food system.

**Assessment: Assessment task 1 – Literature Review (1500 words 40%). Assessment task 2- Blog post (600 - 800 words 20%). Assessment task 3 – Behaviour Change Challenge (2800 words) consisting of 2 worksheets each worth 5% and a report worth 25% and reflection worth 5%**

## HSN107 Physiology of Human Growth and Development

This unit aims to develop student's knowledge of the biological and physiological basis of human growth and development across the lifespan. Fundamentals of cell biology and metabolism will be applied to physiological changes occurring during pregnancy, foetal life, followed by the postnatal, infancy, childhood, adolescence and ageing life stages. The fundamentals of genetics and inheritance of human traits will be developed with an emphasis on inborn errors of metabolism and polymorphisms affecting nutrient needs.

**Assessment: Assessment task 1 – online multiple choice tests (4x5%= 20%), Assessment task 2 – written research assignment (1500 words; 40%), Final examination (40%)**

## 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 and structures of prokaryotic and eukaryotic cells as well as understand cellular mechanisms such as reproduction, transport across the membrane and cellular respiration. The genetic basis of cell biology is focused on in the latter part of the unit starting with Mendelian genetics which leads on to interpreting patterns of inheritance, mechanisms and control of gene expression and the principles of DNA technologies.

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

**Assessment: Assessment task 1 Class test 15%, Assessment task 2 - Bioinformatics assignment 7%, Assessment task 3 - Practical exercises 33%, Final examination 45%.**

**To obtain a pass in the unit, students must submit and pass at least 4 of the 5 practical class assessments, and obtain 50% overall.**

## SLE115 Essential Skills in Bioscience

This 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 development of generic skills and will draw upon and extend the scientific content of other core first year units and utilise this context for skill-building exercises. These exercises will include data analysis and presentation, library research methods, scientific writing and referencing, mathematics and statistics. In addition, students will develop broadly applicable knowledge and skills that are fundamental to a successful career.

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

**To obtain a pass in the unit, students must achieve at least 50% in the unit overall and a minimum of 40% on the final written exam.**

### **SLE123 Physics for the Life Sciences\***

Students of the life sciences have a growing need to acquire an effective working knowledge of the physical sciences. In this unit, physics concepts such as energy, sound and waves, the properties of atoms, electric fields, optics, fluids and mechanics will be explored and related to biology and medicine. Students will use evidence to demonstrate and evaluate knowledge of fundamental physics principles, and will also have the opportunity to design and conduct their own experiments to evaluate how physics is related to life.

**Assessment: Assessment task 1 – Online quizzes (20%), Assessment task 2 - Experimental demonstration (30%), Assessment task 3- Final examination 50%**

### **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: Assessment task 1 - Mid trimester tests 15%, Assessment task 2 - Practical exercises 35%, Assessment task 3 – Practical Assignment 10%; Final examination 40%**

**To obtain a pass in the unit, students must submit and pass at least 4 of the 5 practical assessments and achieve at least 50% overall.**

### **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.

**Assessment: Assessment task 1 - In-class quizzes 20%, Assessment task 2 - Laboratory exercises and reports 30%, Assessment task 3 – Weekly learning goals/reflection 10%, Final examination 40%.**

**To be eligible to obtain a pass in the 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 functional groups.

Students must successfully complete SLE133 before enrolling in SLE155.

**Assessment: Assessment task 1 - In-class quizzes 20%, Assessment task 2 - Laboratory exercises and reports 40%, Final examination 40%.**

**To be eligible to obtain a pass in the 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 3.**

**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 must print a certificate which is valid for three years.**

## **STP050 Academic Integrity**

STP050 is a compulsory zero credit point unit for students wishing to transfer into the Bachelor of Biomedical science. The unit learning and assessment activities provides students with guidance on what constitutes academic integrity. It will allow students to develop knowledge, skills and good practice principles to avoid plagiarism and collusion and thereby maintain academic integrity.

**Assessment: 100% multiple-choice examination (60 minutes).**

**To be eligible to obtain a pass in this unit students must achieve a minimum mark of 70%. Three attempts of the online assessment are permitted.**

## **HAI 010 Academic Integrity**

HAI010 is a compulsory zero credit point unit for students wishing to transfer into any of the Bachelors of Health Science, Exercise and Sport Science, Nutrition Science, Psychological Science, Public Health and Health Promotion. The unit learning and assessment activities provides students with guidance on what constitutes academic integrity. It will allow students to develop

knowledge, skills and good practice principles to avoid plagiarism and collusion and thereby maintain academic integrity.

**Assessment: 100% multiple-choice examination (60 minutes).**

**To be eligible to obtain a pass in this unit students must achieve a minimum mark of 85%. Unlimited attempts of the online assessment are permitted.**

*\*Enrolment in these units is subject to OH+S training currently conducted via SLE010 Laboratory and Fieldwork Safety Induction Program*

*#These units have compulsory on-campus activities which online students are required to attend.*