

Diploma of Bioscience (LDBI)

Course Outline

Version: 1

Navitas Bundoora Pty Ltd trading as La Trobe College Australia ABN 92 143 736 789 TEQSA PRV12186 – Institute of Higher Education, CRICOS Code 03312D; La Trobe University TEQSA PRV12132 – Australian University, CRICOS Code 00115M

Contents

1.	Summary Information	. 3
2.	Course Overview	.4
3.	Course learning outcomes	.4
4.	Level of Award	.4
5.	Program Duration	.4
6.	Entry requirements	.5
(a)	Academic Entry Requirements:	.5
(b)	Minimum age requirement:	.5
(c)	English language requirement:	.5
(d)	Pre-requisite / assumed knowledge	.5
7.	Program approval	. 5
7. 8.	Program approval Program Structure	
		.5
8.	Program Structure	.5 .7
8. a)	Program Structure Suggested Example Course Study Plans:	.5 .7 .9
8. a) b)	Program Structure Suggested Example Course Study Plans: Overview of Subjects:	.5 .7 .9 22
8. a) b) 9.	Program Structure Suggested Example Course Study Plans: Overview of Subjects: Rules for Program Completion	.5 .7 .9 22 22
8. a) b) 9. 10.	Program Structure Suggested Example Course Study Plans: Overview of Subjects: Rules for Program Completion	.5 .7 .9 22 22 22
8. a) b) 9. 10. 11.	Program Structure Suggested Example Course Study Plans: Overview of Subjects: Rules for Program Completion	.5 .7 .9 22 22 22 23

1. Summary Information

Program Title	Diploma of Bioscience (LDBI)
Home campus:	Bundoora
Award "ownership"	La Trobe College Australia
Year and trimester of introduction	Trimester 1 2019
Total Credit Points	120 Credit points
Mode of Delivery	Face to Face on Campus
Intake Trimesters	Trimester 1, 2 and 3
Duration	28 weeks (Full time) or equivalent
Articulation options	La Trobe University: Bachelor of Science Bachelor of Agricultural Sciences Bachelor of Animal and Veterinary Biosciences Bachelor of Biological Sciences Bachelor of Biomedicine

2. Course Overview

A broad introduction to Bioscience covering chemistry, biology, statistical analysis, anatomy and pathology.

A Diploma of Bioscience provides an introduction to molecular biology, ecology, chemical reactions and analysis and an introduction to statistical modelling required in a general scientific career. The diploma will set you on a path to gain the knowledge to help solve global issues or advise on sustainable methodology and practices. You will learn about the structure, functions and interactions of living organisms from the molecular level upwards and begin to discuss some big issues such as climate change, the protection of endangered animals and cancer treatment. You will also learn about the fundamentals of chemistry within these contexts and how to apply statistical practices in your scientific careers.

3. Course learning outcomes

- 1. Provide a foundation for applying theoretical scientific knowledge which includes chemistry, biology, mathematics and psychology and a choice of statistics, bioscience, physics or IT.
- 2. Develop critical thinking skills and information literacy (evaluation of source material) and demonstrate this in an oral presentation to a small peer group.
- 3. Competently use critical laboratory skills such as microscopy and micropipetting to complete scientific experiments that examine different aspects of cell biology.
- 4. Describe the individual properties of the three states of matter as well as how the different states interact with each other and explain how these properties are dependent on environmental conditions.
- 5. Identify and apply basic statistical inference methods for unbiased decision making.
- 6. Develop a logical and well supported written argument and conclusion based on empirical evidence.
- 7. Compute, display and interpret numerical and graphical summaries and basic statistical inference procedures using the Excel software package.
- Distinguish, describe and/or explain the processes that have led to the current distribution of organisms in populations, communities and biomes, with a focus on Australian plants and animals.
- 9. Use practical techniques and tools to observe and measure the outcomes of laboratory procedures to recognise connections between theoretical and practical phenomena.

4. Level of Award

This is a Higher Education, Australian Qualifications Framework Level AQF 5.

5. Program Duration

The program can be completed in two or three trimesters.

6. Entry requirements

- (a) Academic Entry Requirements:
 - Completion of Year 12 with satisfactory ATAR score or completion of Foundation Studies program.
- (b) Minimum age requirement:
 - 17 years
- (c) English language requirement:
 - IELTS Academic overall score of 6.0 (no band less than 5.5)
- (d) Pre-requisite / assumed knowledge:
 - Units 3 and 4: satisfactory completion of any English.

7. Program approval

La Trobe College Australia Academic Board and TEQSA.

8. Program Structure

Trimester	Unit Code	Name of Unit	Core / Elective	Credit points
1	LTM1AIM	Academic Integrity Module	Required	0
1 or 2	SSTA1LS	Statistics for Life Sciences	Core	15
1 or 2	SBIO1MGC	Molecules, Genes and Cells	Core	15
1 or 2	SCHE1CHF	Chemistry Foundations	Core	15
2 or 3	SBIO1EEB	Ecology, Evolution and Biodiversity	Core	15
2 or 3	SCHE1APL	Applications of Chemistry	Core	15
2 or 3	SMIC1IPE	Infections, Pandemics and Epidemics	Core	15
1 or 2 or 3	HHBS1HBA	Human Biosciences A	Core	15
2 or 3	HHBS1HBB	Human Biosciences B	Elective	15
1 or 2 or 3	HHLT1IPP	Introduction to Professional Practice	Elective	15
2 or 3	PPSY1PAC	Introduction to Psychological Science: People and Culture	Elective	15

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Planned Module Availability

Module	Trimester 1	Trimester 2	Trimester 3
SCHE1CHF Chemistry Foundations*	\checkmark	\checkmark	×
SBIO1MGC Molecules, Genes and Cells [†]	\checkmark	\checkmark	×
SSTA1LS Statistics for Life Sciences	~	√	×
HHBS1HBA Human Biosciences A ^{††}	✓	✓	 ✓ - not recommended in this trimester unless starting in October
SCHE1APL Applications of Chemistry*	×	~	~
SBIO1EEB Ecology, Evolution and Biodiversity [†]	×	\checkmark	\checkmark
SMIC1IPE Infections, Pandemics and Epidemics	×	\checkmark	~

Core Modules – Students must complete the following modules:

Elective Modules - Students should complete one of the following modules:

Module	Trimester 1	Trimester 2	Trimester 3
HHBS1HBB Human Biosciences B ^{††} Required module for Bachelor of Biomedicine	~	~	~
HHLT1IPP Introduction to Professional Practice	\checkmark	~	~
PPSY1PAC Introduction to Psychological Science: People and Culture	×	~	~

* SCHE1CHF Chemistry Foundations must be successfully completed before students may enrol in SCHE1APL Applications of Chemistry.

[†] SBIO1MGC Molecules, Genes and Cells and SBIO1EEB Ecology, Evolution and Biodiversity cannot be undertaken concurrently due to laboratory and workshop restrictions.

^{††} HHBS1HBA Human Biosciences A must be successfully completed before students may enrol in HHBS1HBB Human Biosciences B.

Please Note: Students are not recommended to undertake elective modules in their first trimester; course progressions run efficiently when these are undertaken in combination with second or third trimester core units.

Required 0 credit point module:

All students are required to take and successfully pass **LTM1AIM Academic Integrity Module** in their first trimester of study. *

^{*}LTM1AIM does not count towards your study load and is a wholly online module. Completion (prior to week 4) is a requirement to pass your diploma; this module is expected to take about 1 hour.

a) Suggested Example Course Study Plans:

You should consider your own study habits when selecting between Fast Track and Normal Track. Additional variations may be possible; please review enrolment instructions sent to you when you commence your diploma course.

	Fast Track (Completing In 8 months/2 trimesters) Commencing Trimester 1, enter University in Semester 1 the following year					
		COMPULSORY ONLINE MODULE (must be completed in your first trimester of study) LTM1AIM				
			Academic Integ	rity Module		
YEAR 1	Trimester 1	SCHE1CHF [!] (Core)	SBIO1MGC ^{!!} (Core)	SSTA1LS (Core)	HHBS1HBA ^{!!!} (Core)	
(DIPLOMA)		Chemistry Foundations	Molecules, Genes and Cells	Statistics for Life Sciences	Human Biosciences A	
	Trimester 2	SCHE1APL [!] (Core)	SBIO1EEB ^{!!} (Core)	SMIC1IPE (Core)	Elective	
		Applications of Chemistry	Ecology, Evolution and Biodiversity	Infections, Pandemics and Epidemics	HHBS1HBB* is required for B.Biomed	

OR

Normal Track (Completing course in 12 months/ 3 Trimesters)							
	Commencing Trimester 1, enter University in Semester 1 the following year						
		-	COMPULSORY ONLINE MODULE				
(must be completed in your first trimester of s LTM1AIM					study)		
			Academic Integ	-			
	Trimester 1	SCHE1CHF [!]	HHBS1HBA ^{!!!}	SSTA1LS			
		(Core)	(Core)	(Core)			
		Chemistry	Human	Statistics for			
YEAR 1		Foundations	Biosciences A	Life Sciences			
(DIPLOMA)							
	Trimester 2	SCHE1APL [!]	SBIO1MGC ^{!!}	Elective			
		(Core)	(Core)				
		Applications of	Molecules,	HHBS1HBB*			
		Chemistry	Genes and	is required for			
			Cells	B.Biomed			
	Trimester 3	SMIC1IPE (Core)	SBIO1EEB!!				
			(Core)				
		Infections,	Ecology,				
		Pandemics and	Evolution and				
		Epidemics	Biodiversity	J			

Recommended Electives

Students must complete an additional module from any other diploma course. This may be in their second or third trimester. Suggested modules include one of the following:

- <u>HHBS1HBB</u>* Human Biosciences B (required for students wishing to undertake B.Biomed)
- HHLT1IPP Introduction to Professional Practice
- <u>PPSY1PAC</u> Introduction to Psychological Science: People and Culture

When I transfer to La Trobe University I want to study:

Bachelor of Science Complete either of the above study plans, *AND*: WAM requirement: 50% overall Campus: Bundoora Credits: 8 units English requirement (International students only): Overall IELTS 6.0 (with no individual band score less than 6.0)

Bachelor of Biomedicine

Complete either of the above study plans, *AND*: **WAM requirement:** 75% overall **Campus:** Bundoora **Credits:** 8 units **English requirement (International students only):** Overall IELTS 6.5 (with no individual band score less than 6.0) **Elective requirement:** Human Biosciences B (HHBS1HBB)*

2nd course preference (transfers to this this course may be possible from): Bachelor of Biological Sciences *or* Bachelor of Science (Biochemistry, Microbiology or Genetics major)

Bachelor of Biological Sciences

Complete either of the above study plans, *AND*: **WAM requirement:** 50% overall **Campus:** Bundoora **Credits:** 8 units **English requirement (International students only):** Overall IELTS 6.0 (with no individual band score less than 6.0)

Bachelor of Animal and Veterinary Bioscience

Complete either of the above study plans, *AND*: WAM requirement: 70% overall Campus: Bundoora Credits: 8 units English requirement (International students only): Overall IELTS 6.0 (with no individual band score less than 6.0) 2nd course preference (transfers to this this course may be possible from): Bachelor of Agriculture *or* Bachelor of Science (Zoology or Genetics major)

Bachelor of Agriculture

Complete either of the above study plans, *AND*: **WAM requirement:** 50% overall **Campus:** Bundoora **Credits:** 8 units **English requirement (International students only):** Overall IELTS 6.0 (with no individual band score less than 6.0)

b) Overview of Subjects:

SCHE1CHF Chemistry Foundations

Chemistry Foundations is a subject designed for students who have no or little previous experience or study in chemistry. Students will learn concepts, knowledge and skills that will enable them to apply chemical principles and practice during their university degree and future employment.

Note: SCHE1CHF completion is a prerequisite for SCHE1APL.

Subject Learning Outcomes

- 1. Recognise chemical and physical properties of chemical elements, organic and inorganic compounds in order that substances can be categorised and their behaviour predicted in specified chemical environments.
- 2. Predict the outcome of types of chemical reactions and describe the influence of factors affecting the progress of chemical changes.
- 3. Describe the individual properties of the three states of matter as well as how the different states interact with each other and explain how these properties are dependent on environmental conditions.
- 4. Use practical techniques and tools to observe and measure the outcomes of laboratory procedures to recognise connections between theoretical and practical phenomena.
- 5. Apply mathematical tools to solve chemical problems.

Class requirements

Timetabled hours per week (8 hours)

- One 3-hour lecture per week
- One 2-hour tutorial per week
- One 3-hour lab/workshop per week

Assessment piece	Weighting	Subject Learning Outcomes	Course Learning Outcomes
Workshop tests and online quizzes	25%	1-3, 5	1, 2, 4, 5
Laboratory reports	25%	4, 5	1-5, 7, 9
Final Examinations	50%	1-3, 5	1, 2, 4, 5

SBIO1MGC Molecules, Genes and Cells

Living organisms, with their many intricate and intriguing processes, are composed of lifeless molecules. SBIO1MGC takes a look at how those molecules are organized into the smallest unit of life, cells, across a range of organisms. SBIO1MGC also covers how those cells capture light energy, break down molecules to release energy, synthesize new molecules, communicate with other cells, and how the instructions to perform those functions are stored and passed on to the next generation.

Note: SBI01MGC and SBI01EEB are incompatible to be undertaken concurrently.

Subject Learning Outcomes

- 1. Describe and distinguish the features of prokaryotic and eukaryotic (i.e. plant and animal) cells, and explain the function of organelles.
- 2. Name the classes of biological molecules, describe their function in cellular processes, and describe and explain typical separation technologies for those molecules.
- 3. Describe and explain basic cell biology processes, including energy metabolism (photosynthesis and cellular respiration), DNA replication, transcription and translation and their regulation, and cell signalling.
- 4. Describe and explain Mendelian genetics and its role in inheritance.
- 5. Apply critical laboratory skills such as microscopy and micro-pipetting to complete scientific experiments that examine different aspects of cell biology.
- 6. Locate and critically evaluate scientific information and effectively communicate scientific ideas in written and oral formats.

Class requirements

Timetabled hours per week (7 hours)

- One 2-hour lecture per week
- One 2-hour tutorial per week
- One 3-hour lab/workshop per week

Assessment piece	Weighting	Subject Learning Outcomes	Course Learning Outcomes
Online post-practical quizzes	24%	1-5	1, 2, 3, 5, 8, 9
Online module quizzes	16%	1-5	1, 2, 5, 7, 8
Oral Presentation	5%	1-3, 5, 6	1, 2, 5, 6, 8
Written Essay	10%	1-3, 5, 6	1, 2, 5, 6, 8
Final Examinations	45%	1-4	1, 2, 4, 5

SSTA1LS Statistics for Life Sciences

This subject provides an introduction to applied statistics, and strengthens basic numeracy skills. It introduces students to the basic applied statistical methods used in the biological sciences, medical sciences, agricultural sciences, nutrition, and health sciences. The three main areas of study are descriptive statistics, probability, and statistical inference and the use of a statistical computing package is an integral part of this subject.

Subject Learning Outcomes

- 1. Convert data into information by using appropriate numerical and graphical summaries.
- 2. Calculate probabilities and other quantities from discrete and continuous probability distributions and by applying the basic rules of probability.
- 3. Identify and apply appropriate statistical inference methods for decision making.
- 4. Compute, display and interpret numerical and graphical summaries, probabilities and various statistical inference procedures using the SPSS statistical software package and R.
- 5. Apply basic numeracy skills for calculating various quantities in statistics. Calculate probabilities by applying the basic rules of probability and recognise some of the misperceptions of probability.

Class requirements

Timetabled hours per week (5 hours)

- One 2-hour lecture per week
- One 2-hour tutorial per week
- One 1-hour lab/workshop per week

Subject Course Weighting Assessment piece Learning Learning Outcomes Outcomes Tests 30% 1-5 1.2.5.7 10% 1-5 Quizzes 1, 2, 5, 7 Final Examination 60% 1-5 1, 2, 5

HHBS1HBA Human Biosciences A

In this subject, students will be introduced to the anatomical organisation of the body and the basics of cell structure and function. The fundamentals of the nervous and endocrine systems will then be explored in the context of mechanisms of physiological control. This information will provide the foundation for the study of the major organ systems of the body, which include the respiratory, cardiovascular, renal, digestive, reproductive systems and metabolism. Underpinning these studies will be the concept of homeostasis and how it is maintained by integration of organ system functions. In addition, students are required to engage in guided, independent learning throughout the semester to extend their level of knowledge in the topic areas described above.

Note: HHBS1HBA completion is a prerequisite for HHBS1HBB.

Subject Learning Outcomes

- Relate the anatomical organization of the human body to whole body functions. You will be able to:
 (a) Describe the hierarchical body structure from cells to organ systems.
 - (b) Describe the body boundaries where exchange of matter between the internal and the external environment occurs.
 - (c) Describe the body fluid compartments.
 - (d) Explain how specialized functions result from the different structures of the various cell and tissue types.
- 2. Explain how cellular activity contributes to the function of organs and the body as a whole. You will be able to:
 - (a) Explain the different capacities of substances to cross the plasma membrane of cells.
 - (b) Describe the relationship between genes and proteins, and cellular function.
 - (c) Explain the basis of cellular differentiation and specialization.
 - (d) Describe ways in which energy in food becomes available for cellular activities.
- 3. Explain how a given body system contributes to homeostasis under normal conditions. You will be able to:
 - (a) Describe how the major organ systems of the body function.
 - (b) Explain how communication between cells controls body system functions.
 - (c) Describe how, under normal conditions, each of the major organ systems contribute to the maintenance of a stable internal environment.
- 4. Use appropriate skills to achieve significant outcomes in a Human Bioscience inquiry. You will be able to:
 - (a) Interpret information presented as tables, graphs and diagrams.
 - (b) Use correct terminology from physiology and anatomy when communicating in a health science environment.
 - (c) Work effectively in a collaborative team.
 - (d) Use laboratory or other equipment to make accurate physiological observations and develop reasonable inferences.
 - (e) Identify what you know, determine your own and your team's learning needs and develop strategies to address these.

HHBS1HBA Human Biosciences A cont.

Class requirements

Timetabled hours per week (5 hours)

- One 2-hour lecture per week
- One 3-hour workshop per week

Assessment piece	Weighting	Subject Learning Outcomes	Course Learning Outcomes
Workshop quizzes online x 10	10% total	1-4	1, 2, 5
Online tests x 2	50% total (25% each)	1-4	1, 2, 5
Final examination (Part A & B)	40% total (20% each)	1-4	1, 2, 5

SCHE1APL Applications of Chemistry

Applications of Chemistry will continue exploring the core concepts in chemistry and build upon the knowledge from SCHE1CHF. Students will learn concepts, knowledge and skills that will enable them to apply chemical principles and practice during their university degree and future employment.

Note: SCHE1CHF completion is a prerequisite for SCHE1APL.

Subject Learning Outcomes

- 1. Recognise chemical and physical properties of chemical reactions, including equilibrium, thermodynamics, kinetics and their relationship to industrial, biological and environmental chemical processes.
- 2. Examine/Detail the properties of water in an environmental and chemical context.
- 3. Choose appropriate methods of analysis for the detection and quantification of elements and compounds.
- 4. Use practical techniques and tools to observe and measure the outcomes of laboratory procedures to recognise connections between theoretical and practical phenomena.
- 5. Apply mathematical tools to solve chemical problems.

Class requirements

Timetabled hours per week (8 hours)

- One 3-hour lecture per week
- One 2-hour tutorial per week
- One 3-hour lab/workshop per week

Assessment piece	Weighting	Subject Learning Outcomes	Course Learning Outcomes
Workshop tests and online quizzes	25%	1-3, 5	1, 2, 4, 5
Laboratory reports	25%	4, 5	1-5, 7, 9
Final Examinations	50%	1-3, 5	1, 2, 4, 5

SBIO1EEB Evolution, Ecology and Biodiversity

The evolution of life on earth is a product of the interaction between organisms and the environment. SBIO1EEB will explore the amazing diversity of life from a global and Australian perspective. How population genetics allows evolutionary changes of adaptation over both short and long periods of time will be discussed. SBIO1EEB will explore the ecological forces that determine the distribution of life forms, the flow of energy through ecosystems and the dynamics of natural populations as well as the impacts of humans on ecosystems. This subject addresses La Trobe's Sustainability Thinking Essential, which entails deep appreciation of how the choices we make affects the natural, economic, social, political and cultural systems; now and in the future.

Note: SBI01MGC and SBI01EEB are incompatible to be undertaken concurrently.

Subject Learning Outcomes

- 1. Distinguish, describe and /or explain the evolution of organisms by natural selection and other processes.
- 2. Distinguish, describe and/or explain the principles of population genetics and their relationship to natural selection.
- 3. Classify the main kingdoms and phyla of eukaryotes using diagnostic characteristics, phylogenetic criteria and/or taxonomic keys.
- 4. Distinguish, describe and/or explain the processes that have led to the current distribution of organisms in populations, communities, and biomes, with a focus on Australian plants and animals.
- 5. Distinguish, describe and/or explain ecosystem processes including interactions, energy flow and succession.

Class requirements

Timetabled hours per week (7 hours)

- One 2-hour lecture per week
- One 2-hour tutorial per week
- One 3-hour lab/workshop per week

Assessment piece	Weighting	Subject Learning Outcomes	Course Learning Outcomes
Essay Task: Annotated bibliography (4%) Essay (15%)	19%	1-5	1, 2, 5, 6, 8
12 Online Quizzes (3% each)	36%	1-5	1, 2, 3, 5, 7, 8, 9
Final Examinations	45%	1-5	1, 2, 4, 5, 8

SMIC1IPE Infections, Pandemics and Epidemics

Infectious diseases, both new and ancient, continue to threaten wellbeing by causing localised, epidemic or pandemic disease outbreaks. Selected microorganisms will be described and compared: the main focus is the natural habitat of the organisms (reservoirs of infection), the ways in which humans can encounter the organisms (routes of infection) and the strategies available at the individual, community and global levels to prevent disease and, in the diseased patient, to cure disease.

Subject Learning Outcomes

- 1. Describe infectious agents, their biological features, epidemiology, disease effects and disease management, using appropriate microbiological terms and scientific concepts.
- 2. Apply understanding of the different modes of transmission of infectious agents to control and prevention strategies for individuals, communities and intra- and- international borders.
- 3. Compare the factors that can influence the emergence, re-emergence and/or spread of infectious diseases.
- 4. Discuss different laboratory techniques that are used to isolate and identify microorganisms.

Class requirements

Timetabled hours per week (4 hours)

- One 2-hour lecture per week
- One 2-hour tutorial per week

Assessment piece	Weighting	Subject Learning Outcomes	Course Learning Outcomes
Online Quizzes (Top 4 quiz marks 5% each)	20%	1-4	1, 2, 5
Mid-trimester examination	25%	1-3	1, 2, 5, 8
Workshop activity	30%	4	1, 2, 5, 7, 8
Final Examinations	25%	1-3	1, 2, 5, 8

Suggested Electives

One available module from any other diploma offered at LTCA must be completed to successfully complete the Diploma of Bioscience. The recommended modules are below:

HHBS1HBB Human Biosciences B*

In this unit, students will continue with the study of anatomy & physiology and apply the concepts of human structure and function and homeostasis introduced in HHBS1HBA, to the musculoskeletal, nervous and endocrine systems. Anatomical principles and terminology will be applied to relevant body systems and the concept of integrated function of multiple systems in one body region will be introduced. Integrated whole body responses to homeostatic challenge will be included.

*NOTE: Students wishing to articulate into Bachelor of Biomedicine must complete Human Biosciences B. HHBS1HBA completion is a prerequisite for HHBS1HBB.

Subject Learning Outcomes

- 1. Apply relevant anatomical principles to describe the structure and function of selected body systems.
- 2. You will be able to:
 - (a) Describe what is meant by anatomical concepts and principles and use these learning tools to describe normal anatomical structure and function of the musculoskeletal, nervous and vascular systems.
 - (b) Describe the significance of embryological development to explain anatomical relationships and innervation in the adult body.
 - (c) Describe advantages and disadvantages of common medical imaging techniques for visualisation of anatomical structures.
- 3. Apply relevant anatomical principles to integrate structure and function of body systems within an anatomical region.
- 4. You will be able to:
 - (a) Apply relevant anatomical concepts and principles to explain the structure and function of the torso (including vertebral column and organs of the anterior body cavities) in activities of daily life.
 - (b) Describe the anatomical basis of some common developmental changes and abnormalities of the torso.
- 5. Use appropriate skills to achieve significant outcomes in a human bioscience enquiry. You will be able to:
 - (a) Make accurate observations of anatomical and physiological structures or events and infer their relationship to function.
 - (b) Communicate anatomical and physiological concepts using correct medical terminology in writing, orally and using relevant media.
 - (c) Work effectively in a collaborative team.
 - (d) Identify what you know, determine your own and your team's learning needs, and develop strategies to address these.

HHBS1HBB Human Biosciences B* cont.

Class requirements

Timetabled hours per week (5 hours)

- One 2-hour lecture per week
- One 3-hour workshop per week

Assessment piece	Weighting	Subject Learning Outcomes	Course Learning Outcomes
Summative Quizzes x 5	25% total (5% each)	1-5	1, 2, 5
Enquiry 1 and 2: Team Report	20%	1-3	1, 2, 5, 6
Enquiry 3	20%	2-3	1, 2, 5
Final Exam	35%	1-5	1, 2, 5

HHLT1IPP Introduction to Professional Practice

HHLT1IPP Introduction to Professional Practice will introduce you to the health care system; as a consumer participant, as a health and human services practitioner and as part of a health care team.

This subject also offers you the opportunity to reflect on your own experiences within the health care system, and to use this to analyse and develop your understanding of health and human services.

Topics included in this subject:

- The structure and function of the Australian Health Care System
- Issues of access and equity in the Australian Health Care System
- Working in teams, as students and as health care practitioners
- Person and family centred care
- Clinical decision making
- Communication and Health Information
- Legal and ethical aspects of practice

Subject Learning Outcomes

- 1. Critically examine topics and use search strategies to find academic resources to resolve an enquiry and to complete assessment tasks.
 - (a) Construct and implement effective research strategies to identify and locate authoritative sources of information.
 - (b) Use critical thinking and critical reading skills to identify and analyse concepts, ideas and arguments in a range of academic and publicly available resources.
 - (c) Demonstrate understanding of the underlying principles of referencing and academic integrity by correct use of the American Psychological Association's (APA6) style of referencing in learning and assessment tasks.
- 2. Engage in analysis of the ways in which consumers interact with the health care system.
 - (a) Describe features of the current health services system, including the role of collaborative practice, as it relates to the provision of services to consumers.
 - (b) Describe the role of a range of health and human services professions involved in the provision of health care to consumers.
 - (c) Describe features of the lived experience of illness and disability from the perspective of consumers.
 - (d) Explain how an individual may benefit from taking an active role in the decision-making that relates to their health care and wellbeing.
- 3. Apply principles of effective communication required for professional practice.
 - (a) Describe the processes of effective verbal and non-verbal communication and identify potential barriers to communication.
 - (b) Describe key elements required for a successful professional relationship with consumers or clients.
 - (c) Describe strategies for working effectively in teams and how ineffective communication can contribute to team dysfunction and conflict.
 - (d) Interpret information from documents commonly encountered as health professionals.
 - (e) Use active listening and interviewing techniques to elicit information.
 - (f) Identify important considerations when using technology to communicate with colleagues and clients.
 - (g) Use appropriate academic writing skills.
- 4. Apply reasoning and decision-making processes to clinical and professional case studies.
 - (a) Identify the key phases in the clinical reasoning cycle.
 - (b) Describe the important facts, context or people relating to a clinical or professional case study.
 - (c) Collect relevant information relating to a clinical or professional case study.
 - (d) Interpret, discriminate and relate information in order to make logical deductions or form opinions by interpreting subjective and objective information.
 - (e) Identify decisions and judgements made in clinical and professional case studies.

HHLT1IPP Introduction to Professional Practice cont.

Class requirements

Timetabled hours per week (4 hours)

- One 2-hour lecture per week
- One 2-hour tutorial per week

Assessment piece	Weighting	Subject Learning Outcomes
Autobiography	5%	3
Online Test (Multiple Choice Questions)	20%	1, 2
Written Case Studies Report	25%	1-4
Extended Response Task	30%	1-4
Online Test (Multiple Choice Questions)	20%	2, 4

PPSY1PAC Introductory Psychology: People and Culture

In this subject you will be introduced to key areas of psychology with a socio-cultural perspective. People share knowledge with others in society. The shared knowledge (i.e., culture) gives meanings to people's lives as well as influencing their everyday behaviour, the sense of who they are, their personal relationships and psychological wellbeing. We will discuss psychology of individuals in diverse contexts to understand how personal experiences, including emotions, motivation, intimacy with others and health behaviours are shaped by cultural understanding and social expectations in those contexts.

Note: Advisable for SBIO1MGC and SSTA1LS to be completed prior to taking PPSY1PAC.

Subject Learning Outcomes

- 1. Apply an understanding of socio-cultural perspectives of psychology to human behaviour and experiences.
- 2. Identify appropriate information sources to develop logical, well-supported, and appropriately referenced written arguments based on empirical evidence.
- 3. Demonstrate sensitivity and knowledge of diversity in cultural beliefs, practices, and communication styles.
- 4. Critically reflect on psychological assessment tools within a socio-cultural context.
- 5. Apply ethical guidelines governing appropriate academic conduct.

Class requirements

Timetabled hours per week (4 hours)

- One 2-hour lecture per week
- One 2-hour tutorial per week

Assessment piece	Weighting	Subject Learning Outcomes
Self-Reflection Questionnaire	3%	1
Self-Reflection Video Assessment	12%	1, 3, 4, 5
Major Essay	25%	1, 2, 3, 4, 5
Online Quizzes x 3	60% (20% each)	1, 3, 4, 5

9. Rules for Program Completion

Students need to successfully complete 120 credit points comprising 1 required unit, 7 core units and 1 elective unit.

10. Program articulations

Graduates of this program can articulate with credit for 8 units into the following La Trobe University courses:

- Bachelor of Science
- Bachelor of Agricultural Sciences
- Bachelor of Animal and Veterinary Biosciences
- Bachelor of Biological Sciences
- Bachelor of Biomedicine

11. Facilities and Resources

Type of facilities and resources required	Explanation
Teaching rooms	There is one lecture theatre (capacity 90) and three computer labs capacity 25. The college has seminar style classrooms that are designed as team-work hubs. Each room has audio visual equipment including, data projectors with multiple screens wireless microphones, visualisers, high speed Wi-Fi and desk-based power points. Seminar rooms: 5 capacity 50 7 capacity 40 3 capacity 30 21 capacity 20
Computer Laboratory	Students have access to three dedicated computer laboratories and access to a shared computer hub. All are equipped to a standard equivalent to those provided at the partner University. This includes wireless computer access, printers and scanners. All computers contain a range of specialist software and the MS Office Suite. All hardware is replaced on a three-year cycle. Computer labs: 2 capacity 20 2 capacity 30
Library	Students have access to the LTU library which supports ELICOS and pathways programs. The library facilities include a specific lending collection aligned to programs offered, student computers, quiet study areas, access to online resources and library staff for research assistance and direction.

Type of facilities and resources required	Explanation
Learning Management System	 The Learning Management system (Moodle) contains all subject information for students including subject outline, assessments, tutorial activities, and collaborative learning activities. LTCA delivers all subjects using the face to face delivery mechanism, onsite for all students onshore on a student visa. For Domestic students, a blended learning model and approach is available stemming out of the transformation to online learning starting January 2020 due to the pandemic. A number of online learning tools have been added. These include, but are not limited to: Virtual classrooms Synchronous and Asynchronous sessions Interactive whiteboards Discussion forums Podcasts and screencasts Embeddable external platforms (Kahoot, Socrative, Quizlet, H5P etc.)

12. Measurement of student outcomes

(a) Grading Scale

The Grading Scale is included in every course outline. The assessment grade is a measure of the extent to which the desired learning outcomes have been achieved in the units of the program. Grades the students achieve are descriptive rather than numeric and are officially defined as:

Grade	Percentage Range
А	80 - 100
В	70 - 79
С	60 - 69
D	50 - 59
N	0 - 49

13. Articulation options

This Diploma will provide students with the basic skills to enter scientific and enquiry-based industries in an entry level position. With this Diploma students are eligible to apply for entry to the second year of the Bachelor of Science, Bachelor of Agricultural Sciences, Bachelor of Animal and Veterinary Biosciences, Bachelor of Biological Sciences, or Bachelor of Biomedicine.