



Course Code:	1001BPS
Course Name:	Human Biology: Human Organism
Semester:	Trimester 3, 2018
Program:	Diploma of Science
Credit Points:	10
Course Coordinator:	Dr Dayana Matthews
Document modified:	26 <sup>th</sup> September 2018

### Teaching Team

Your lecturer/tutor can be contacted via the email system on the portal.

Name	Email
Dr Dayana Matthews	<a href="mailto:dayana.matthews@staff.griffithcollege.edu.au">dayana.matthews@staff.griffithcollege.edu.au</a>

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### Staff Consultation

Your lecturer/tutor is available each week for consultation outside of normal class times. Times that your lecturer/tutor will be available for consultation will be given in the first week of lectures. A list of times and rooms will be published on the Griffith College Portal under the “myTimetable” link.

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## Prerequisites

This course is not a prerequisite for any other Diploma course.

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## Brief Course Description

Human Biology: Human Organism is a 10 Credit Point course within the Diploma of Biosciences. The course is situated within the first trimester of the program. The Diploma of Biosciences is designed to provide students with a pathway to:

- further university studies in related degrees or
- direct employment.

This Course provides an introduction to human anatomy and physiology and cell biology. It examines the structure and function of the major body systems, highlighting the interrelationship of body organ systems, homeostasis and the dependence of function upon structure. An appreciation of human body structure and regulation is gained through clinical application, namely diagnosis and treatment of human disease.

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## Rationale

This course provides you with a solid understanding of basic human anatomy and physiology and the fundamentals of human biology. For some, this knowledge will provide the essential background for studying additional Courses in biomedical/biological/forensic/medical sciences in subsequent years or for study in graduate medical programs. For remaining students, the information presented in this Course will assist in your comprehension of the ever increasing impact of biomedical science on everyday life.

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## Aims

Biological Science is the scientific study of life and living organisms. It is concerned with understanding the chemical, physical and structural bases upon which living organisms are constructed and the biological properties that emerge in living organisms. With this knowledge comes the ability to make predictions about living processes and the manipulation of biological processes. In the Course, 1001BPS - Human Biology, the foundations of modern biology are applied to the study of the human organism: its cells, tissues, organs and systems, and their inter-relationships. This Course provides the essential basis for further studies in advanced human anatomy and physiology, and related biological/biomedical sciences offered in the School of BPS and will be a useful elective for students in other Programs offered by the University. This is a core Course in the minimum requirements for material to be covered by the Graduate Australian Medical Schools Admission Test. It is expected therefore that students from throughout the University may take this Course.

## Learning Outcomes

Upon completion of this course you will:

1. Understand the structure of the human body and the interrelationship between body systems.
  2. Understand the dependence of body function upon structure.
  3. Understand the importance of regulation of the human body and gain insight to the clinical consequences that arise when this is disrupted.
  4. Be competent in the use of anatomical and clinical terminology and nomenclature.
  5. Be able to critically evaluate and analyse aspects of human biology.
  6. Have developed effective communication skills, (oral, written and interpersonal).
  7. Be aware of academic conventions and ethical behaviour relevant to the field of science.
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## Texts and Supporting Materials

A detailed outline of the material to be covered in each Learning Module shall be provided in the form of Power Point lecture slides and other module notes.

Marieb, E. Hoehn, K (2013) Human Anatomy and Physiology, (10th ed.), Pearson Benjamin Cummings Publishers

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## Organisation and Teaching Strategies

The Course is taught by using a variety of teaching and learning activities including lectures and intensive, facilitated workshops/tutorials. Course material will be presented in six (6) Learning Modules each with comprehensive lecture slides and a set of learning activities and will include the use of web-based resources. Each Learning Module will be run over a two (2) week period and will consist of at least four to five (1hr) lectures, one (2hr) workshop and one (2hr) tutorial.

The lecture slides will provide you with a detailed outline of the material covered in the lectures. Furthermore, you may stop at any time to clarify a particular point by referring to the textbook or web-site. The Power Point slides, , web-based resources and the text will provide content. Lectures will provide an overview and discussion of key material of each module topic, and the workshops and tutorials will examine and discuss material in greater depth to allow you the opportunity to develop and consolidate your learning and test your knowledge of the subject material on an ongoing basis.

Workshop (2hr) sessions will be used to focus your attention on the learning objectives for each module and as a small group activity will enable the development of effective communication skills.

Tutorial (1hr) sessions will allow consolidation of module content, providing the opportunity to focus on specific topics through group discussion, worksheets and web-based tasks.

**Attendance**

Your attendance in class will be marked twice during a four hour class. To receive full attendance, you must be present in the classroom on both occasions. Therefore, you are encouraged to attend and participate in all classes throughout the semester.

Attendance at all sessions, including workshops is compulsory. Failure to attend an allocated session will result in non-attendance being recorded and zero marks being allocated to the workshop quiz (at the end of the workshop session) unless documentary evidence of medical or other extenuating circumstances is provided within one week of the date of the workshop. Where satisfactory evidence is furnished, final attendance record and workshop quiz marks may be proportionately adjusted for the approved absence.

**Participation in Class**

You are expected to actively participate in classes each week.

**Consultation Times**

Attendance during consultation times is optional but you are encouraged to use this extra help to improve your learning outcomes.

**Course Materials**

Lecture notes will be made available to you on the Learning@Griffith College section of the Griffith College portal and you are advised to print these out before each class to help guide you in your study program. It is recommended that you read relevant module notes prior to the timetabled class or as directed by the lecturer. You are also expected to bring the lecture notes and text to workshop sessions so that extra notes can be added.

**Independent Learning**

You are expected to reinforce your learning from class time by undertaking sufficient independent study {approximately 6 hours per week outside of class time} so that you can achieve the learning outcomes of the course.

**Program Progression**

You are reminded that satisfactory Program Progression requires that attendance in classes is maintained at equal to or greater than 80% and that GPA is maintained at equal to or greater than 3.5 [please see Griffith College Policy Library - Program progression Policy - for more information].

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## Content Schedule

### Weekly Teaching Schedule

Week	Topic	Activity	Readings
1	Module 1: Structure and Orientation Topic 1- The human body: an overview	Lecture	Chapter 1 & 3
	Topic 2 - Cellular Structure	Workshop	
2	Module 1: Structure and Orientation	Lecture	Chapter 4 & 1
	Topic 3- Types of Tissues	Tutorial	
	Topic 4 – Basic Anatomical Terminology	Workshop	
3	Module 2: Support and Movement	Lecture	Chapter 5, 6 & 7
	<u>Quiz 1</u>	<u>Examination</u>	
	Topic 1- The Integumentary System	Tutorial	
	Topic 2 – The Skeletal System	Workshop	
	Module 2: Support and Movement	Lecture	Chapter 8, 9 & 10
4	Topic 3- Joints and Movement	Tutorial	
	Topic 4 – The Muscular Tissues	Workshop	
	Module 3: Control and Integration	Lecture	Chapter 11 & 12
5	<u>Quiz 2</u>	<u>Examination</u>	
	Topic 1- Nervous Tissue	Tutorial	
	Topic 2 – The Central Nervous System	Workshop	
	Module 3: Control and Integration	Lecture	Chapter 13,14,15 & 16
6	Topic 3- The Peripheral Nervous System	Tutorial	Revise Modules 1 - 3
	Topic 4 – The Endocrine System	Workshop	
	Module 4: Maintenance 1	Lecture	Chapter 17, 18, 19 & 20
7	Topic 1- The Circulatory System	Tutorial	
	Topic 2 – The Lymphatic System	Workshop	
	<u>Mid-Semester Exam on Modules 1 to 3</u>	<u>Examination</u>	
	Module 4: Maintenance I	Lecture	Chapter 21
8	Topic 3- Inflammation and Repair	Tutorial	
	Topic 4 – The Immune System	Workshop	

	Module 5: Maintenance II	Lecture	Chapter 22 & 23
9	<u>Quiz 3</u>	<u>Examination</u>	
	Topic 1- The Respiratory System	Tutorial	
	Topic 2A – The Digestive System	Workshop	
	Module 5: Maintenance II	Lecture	Chapter 23 & 25
10	Topic 2B- Digestive System Accessory Organs	Tutorial	
	Topic 4 – The Urinary System	Workshop	
	<u>Research Assignment due</u>		
	Module 6: Continuity	Lecture	Chapter 27
11	<u>Quiz 4</u>	<u>Examination</u>	
	Topic 1- Sexual Reproduction	Tutorial	
	Topic 2 – The Male Reproductive System	Workshop	
	Module 6: Continuity	Lecture	Chapter 27 & 28
12	Topic 3- The Female Reproductive System	Tutorial	Revise Modules 4 - 6
	Topic 4 – Embryonic Development	Tutorial	
	Final Examination		

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## Assessment

This section sets out the assessment requirements for this course.

### *Summary of Assessment*

Item	Assessment Task	Weighting	Relevant Learning Outcomes	Due Date (Week)
1	Mid-semester quiz	30%	1,2,3,4	7
2	Workshop Quizzes 1-4	20%	1,2,3,4,6,7	3, 5, 9 &11
3	Research Project - Written	10%	4,5,6,7	10
4	End of semester exam	40%	1,2,3,4,5	13

### *Assessment Details*

The aims of the **examinations** are to assess comprehension of the Course material by answers to multiple choice, essay and problem-based questions.

The **mid-semester quiz** will assess your understanding of concepts presented in Learning Modules 1 to 3. The results of this assessment item will provide you with feedback about your performance, which can then be used to modify study habits and examination techniques, if necessary.

The **Workshop Quizzes** aim to assess retention and comprehension of Course material and to assist you in assimilating and consolidating Course material in a cumulative process with consistent feedback on progress. Workshop assessment will also encourage attendance, participation, teamwork, and ongoing learning.

The **Research Project** (Written Take-Home Assignment) will enable you to independently explore, critically evaluate and analyse selected aspects of human biology in more detail. The Research Assignment may also contain detailed instructions to encourage you to use innovative and original methods of problem-solving, or may ask you to explore the ethical and social issues behind specific aspects of biomedical research, human healthcare or modern medical technologies.

The **final exam** will assess your understanding of material covered in all of the Modules with an emphasis on Modules 4 to 6.

**NOTE: You are required to attend and participate in at least 3 of the 4 workshops and pass the workshop quizzes to pass this course.** Failure to attend an allocated workshop will result in non-attendance being recorded and zero marks being allocated to the workshop quiz unless documentary evidence of medical or other extenuating circumstances is provided within 3 days of the date of the workshop quiz. Where satisfactory evidence is furnished, final attendance record and workshop quiz marks will be proportionately adjusted for the approved absence. You must participate in the workshop in order to sit the quiz at the end of class.

#### *Submission and Return of Assessment Items*

Workshop Quiz results will be made available to you in the next workshop session, so that you have the opportunity to clarify material and can gain feedback on your performance. You are to submit written assignments for marking to the lecturer in class time. Normally you will be able to collect your assignments in class within fourteen [14] days of the due date for submission of the assignment.

### **Retention of Originals**

You must be able to produce a copy of all work submitted if so requested. Copies should be retained until after the release of final results for the course.

#### *Extensions*

To apply for an extension of time for an assignment, you must submit an Application for Extension of Assignment form to your teacher at least 24 hours before the date the assignment is due. Grounds for extensions are usually: serious illness, accident, disability, bereavement or other compassionate circumstances and must be able to be substantiated with relevant documentation [e.g. Griffith College Medical Certificate]. Please refer to the Griffith College website - Policy Library - for guidelines regarding extensions and deferred assessment.

#### *Assessment Feedback*

Marks awarded for assessment items will also be available on the on-line grades system on the Student Website within fourteen [14] days of the due date.

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### **Generic Skills**

Griffith College aims to develop graduates who have an open and critical approach to learning and a capacity for lifelong learning. Through engagement in their studies, students are provided with opportunities to begin the development of these and other generic skills.



Studies in this course will give you opportunities to begin to develop the following skills:

Generic Skills	Taught	Practised	Assessed
Written Communication	Yes	Yes	Yes
Oral Communication	Yes	Yes	Yes
Information Literacy	Yes	Yes	Yes
Secondary Research	Yes	Yes	Yes
Critical and Innovative Thinking	Yes	Yes	Yes
Academic Integrity	Yes	Yes	Yes
Self Directed Learning	Yes	Yes	Yes
Team Work	Yes	Yes	Yes
Cultural Intelligence	Yes	Yes	
English Language Proficiency	Yes	Yes	Yes

*Additional Course Generic Skills*

Specific Skills	Taught	Practised	Assessed
Creativity and Innovation		Yes	Yes
Ethical behaviour in social/professional work	Yes	Yes	Yes
Work autonomously	Yes	Yes	Yes

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Additional Course Information

**Course Communication**

You are instructed to regularly access and monitor any important announcements, timetable changes and dates regarding the course via the Griffith College Portal.

**Teacher and Course Evaluations**

Past students commented that the comprehensive course structure supported and encouraged their learning in a positive way. They particularly liked the relevance of the material covered to real life situations where carefully selected case-studies were used as a basis for team and whole-class discussions and debate. Others made positive comments about the freedom of choice in the assignment topic so they could focus learning on their interests. In response to student feedback, more assistance is made available to help them cope with learning the specific terminology used within the course.

Your feedback is respected and valued by your lecturers and tutors. You are encouraged to provide your thoughts on the course and teaching, both positive and critical, directly to your

lecturer and tutor or by completing course and lecturer evaluations via the Griffith College portal online evaluation tool whenever these are available.

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## Academic Integrity

Griffith College is committed to maintaining high academic standards to protect the value of its qualifications. Academic integrity means acting with the values of honesty, trust, fairness, respect and responsibility in learning, teaching and research. It is important for students, teachers, researchers and all staff to act in an honest way, be responsible for their actions, and show fairness in every part of their work. Academic integrity is important for an individual's and the College's reputation.

All staff and students of the College are responsible for academic integrity. As a student, you are expected to conduct your studies honestly, ethically and in accordance with accepted standards of academic conduct. Any form of academic conduct that is contrary to these standards is considered a breach of academic integrity and is unacceptable.

Some students deliberately breach academic integrity standards with intent to deceive. This conscious, pre-meditated form of cheating is considered to be one of the most serious forms of fraudulent academic behaviour, for which the College has zero tolerance and for which penalties, including exclusion from the College, will be applied.

However, Griffith College also recognises many students breach academic integrity standards without intent to deceive. In these cases, students may be required to undertake additional educational activities to remediate their behaviour and may also be provided appropriate advice by academic staff.

As you undertake your studies at Griffith College, your lecturers, tutors and academic advisors will provide you with guidance to understand and maintain academic integrity; however, it is also your responsibility to seek out guidance if and when you are unsure about appropriate academic conduct.

Please ensure that you are familiar with the [Griffith College Academic Integrity Policy](#); this policy provides an overview of some of the behaviours that are considered breaches of academic integrity, as well as the penalties and processes involved when a breach is identified.

For further information please refer to the Academic Integrity Policy on the Griffith College website – Policy Library.

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