



Course Code:	1808NRS
Course Name:	Human Anatomy & Physiology 2
Trimester:	Health Care Trimester 2, 2017
Program:	Diploma of Health Care
Credit Points:	10
Course Coordinator:	Sarah Morgan Smith
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Teaching Team

Sarah Morgan-Smith

Jim Fielding

Dr. Sue Parker

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

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.

Prerequisites

There are no prerequisites for this course

Brief Course Description

This course builds on knowledge and skills obtained in 1805NRS Human Anatomy and Physiology 1. Students investigate the structure and function of the normal human body; the role of homeostasis in the maintenance of metabolism, normal body temperature, and fluid, electrolyte and acid base balance; and the relevance of such knowledge to the maintenance of human health.

Professional practice in a range of health disciplines is underpinned and informed by knowledge and understanding of the anatomy and physiology of the human body. This understanding assists with identification and interpretation of clinical changes.

Changes to the body across the lifespan are also explored. Core concepts are taught using an integrated and exploratory approach to facilitate the ability of students to transfer, assimilate and utilise knowledge gained in this course to other courses within their program, and to apply what they have learnt to nursing practice.

Rationale

This course addresses the generic skills of the Griffith College Graduate by enhancing the student’s ability to work autonomously and in teams, communicate effectively, problem solve as well as develop professional responsibility.

Sound knowledge and understanding of anatomy and physiology is essential for health care students. Firstly, it provides a foundation for applying skills used in health assessment. Secondly it enables the student to move seamlessly into the study of pathophysiology in subsequent human health and nursing studies.

Aims

The principal aim of this course is to build on students' knowledge and understanding of the normal anatomy and physiology of the human body and the relevance of such knowledge to the maintenance of health in order to inform effective health care practice.

Learning Outcomes

After successfully completing this course you should be able to:

1. Use appropriate terminology, identify the key anatomical structures and explain the key physiological functions of the following systems:
 - a. cardiovascular,
 - b. respiratory,
 - c. gastrointestinal system,
 - d. renal system,
 - e. reproductive including the processes of pregnancy, and human development;
 2. Explain the multi-factorial mechanisms that contribute to homeostasis including:
 - a. metabolism, b. temperature regulation, and c. fluid, electrolyte and acid-base balance; and
 3. Discuss the influence of homeostasis on human nutritional requirements and implications for diet and exercise.
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Texts and Supporting Materials

O'Loughlin, V., Bidle, T., & McKinley, M. (2016). *Anatomy & Physiology: An Integrative Approach*. 2nd edition. New York: McGraw-Hill.

Laboratory learning sheets will be located on the 1808NRS course website on the Griffith College Student Portal.

Recommended Readings:

The DHC teaching team strongly recommends students use the on-line websites associated with the prescribed text.

Organisation and Teaching Strategies

The two main teaching and learning strategies are engagement and blended learning. Teaching methods will include a combination of face-to-face strategies: interactive lectures,

laboratories and/or tutorials. Students are also encouraged to utilise web materials including designated self-directed activities and worksheets. The teaching methods have been designed to facilitate the development of a strong knowledge base in anatomy and physiology. Students will gain skills in team work and problem solving in the laboratory setting.

It is standard practice at Griffith College that lectures timetabled in lecture capture-enabled venues are recorded and made available to students on the relevant course site. Lecture Captured sessions are not intended as a substitute for a Lecture. Students are encouraged to attend the lectures in real time and use Lecture Capture as supplementary.

Class Contact Summary

Classes for Human Anatomy and Physiology 2:

Lectures: 2 hours per week (1-10).

Tutorials: 2 hours per week (1-10) & Revision week (11).

Workshops: 1 hour per week (1-10) **Laboratory:** 5 x 2 hours

Attendance

ATTENDANCE AT LABORATORY CLASSES IS ESSENTIAL

The laboratory component of the course introduces the students to kinaesthetic activities that students report are helpful to understanding complex biological concepts. Students must have completed the pre-lab questions before attending each lab. **Lab learning sheets must be brought to each lab**, failure to have the relevant lab learning sheets may result in exclusion from the lab. Preparation of your lab learning sheets are enhanced by completing weekly module worksheets, including online learning aids to suit students busy extracurricular lifestyle, whilst identifying areas that they need to work on to understand imperative concepts. Each of the modules is supported with web-based materials see the Griffith College MyStudy site for this course.

If you are unable to attend a Lab for extenuating reasons you will be required to submit evidence explaining any absence (e.g. medical certificate). Students who miss a lab will be required to **complete the relevant lab learning sheet** in their own time and have it checked and signed off by their tutor, before the next consecutive lab.

A maximum of one laboratory session may be missed (with documentary evidence). If more than one lab session is missed, consultation with the Course Convenor and/or Program Convenor will be required to determine if it is appropriate for you to continue in the course.

Students will work in small groups to analyse experiments and develop problem solving skills. Content covered in the laboratories will be assessed within the intra semester and final examinations. An attendance roll will be maintained for all lab classes. Students are expected to attend their scheduled laboratory class.

Health and safety regulations stipulate that students **MUST WEAR COMPLETELY CLOSED-IN SHOES AND LABORATORY COATS TO ALL LABORATORIES**. Students will not be permitted to enter a laboratory with open footwear (sandals, toeless or

backless shoes). If you fail to follow the health and safety instructions within the lab you may be excluded from the laboratory session.

Students must complete the on-line modules for workplace health and safety for Griffith University labs and submit the certificate of completion for "Student Basic Health & Safety Induction" and "Health Lab Induction" before the first laboratory session. Students may be required to bring their prescribed textbook and laboratory workbook to laboratories. Information regarding laboratory workbooks and laboratory notes will be provided on the course site, and in the first lecture.

Preparation and Participation in Class

You are expected to complete your readings and review the lecture notes plus complete Module Worksheet activities prior to class so that each week you can actively contribute to your learning. You are expected to ask and answer questions and to initiate discussions and stimulate debate in group and class situations.

Consultation Times

Attendance during consultation times is optional and students are encouraged to use this extra help to enable you to meet the stated learning outcomes.

Course Materials

Lecture notes will be made available to you on the 1808NRS MyStudy website and you are encouraged to print these out and bring them to each class so that extra notes can be added.

Independent Study

Independent study requires that you spend time outside classes engaged in learning necessary to acquire the knowledge, skills and attitudes needed to both achieve the learning outcomes and complete your assignments. Independent study includes reading the required text books, using library and internet facilities. For this 10 CP course, you will need to spend at least 10 hours per week engaged in study both timetabled classes and independent study.

Program Progression

Students 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 (Australian students) or equal to or greater than 4.0 (International students) in any trimester [please see Griffith College Policy Library - Program Progression Policy - for more information].

Content Schedule

Weekly Teaching Schedule

Week	Topic	Activity	Readings
1	Structure & function of the Cardiovascular System	Lecture	Course Text Chapter 19: Cardiovascular System: Heart pp.731 - 750
	Structure & function of the Cardiovascular System	Tutorial	Chapter 19: Cardiovascular system: Heart pp.731 -750
	Structure & function of the Cardiovascular System	Workshop	Module Worksheet Topic 1.1 - Structure & function of the Cardiovascular System
	Lab 1: The Cardiovascular System	Laboratory	Lab Learning Sheet 1
2	Activity of the Heart	Lecture	Course Text Chapter 19: Cardiovascular System: Heart pp. pp.750 – 775
	The Cardiovascular System	Tutorial	Module Worksheet Topic 1.2 – Activity of the Heart
	Cardiovascular System	Workshop	ECG trace/Auscultation
3	Blood vessels, circulation & lymphatics	Lecture	Course Text Chapter 20 & 21: CVS: Vessels and Circulation & Lymphatic System
	Blood vessels, circulation & lymphatics	Tutorial	Module Worksheet Topic 1.3 Blood vessels, circulation & lymphatics
	The CVS:vessels, circulation & lymphatics	Workshop	Lab Learning Sheet 2

	Lab 2: The Cardiovascular System: ECG	Laboratory	Lab Learning Sheet 2
4	Structure & function of the Respiratory System	Lecture	Course Text Chapter 23: Respiratory System
	Structure & function of the Respiratory System	Workshop	Lab Learning Sheet 3
	The respiratory system	Tutorial	Module Worksheet Topic 2.1 Structure & function of the Respiratory System
	Lab 3: The Respiratory System	Laboratory	Lab Learning Sheet 3
5	Lab 4: The Digestive System	Laboratory	Lab Learning Sheet 4
	Lung volumes, capacity & breathing control	Lecture	Course Text Chapter 23: Respiratory System
	Lung volumes, capacity & breathing control	Tutorial	Module Worksheet Topic 2.2 Lung volumes, capacity & breathing control
	Lung volumes, capacity & breathing	Workshop	Concept drawings/Auscultation
6	Structure & function of the Digestive System	Lecture	Course Text Chapter 26: Digestive System
	Mid-Trimester Exam Preparation	Workshop	Practice MSE
	Structure & function of the	Tutorial	Module Worksheet Topic 3.1 Structure & function of the Digestive System

	Digestive System		
7	Nutrition & Metabolism	Lecture	Course Text Chapter 27: Nutrition & Metabolism
	Nutrition & Metabolism	Tutorial	Module Worksheet Topic 3.2 Nutrition & Metabolism Course
	Nutrition & Metabolism	Workshop	Concept drawings
8	Structure & function of the Urinary System	Lecture	Course Text Chapter 24: Urinary System
	Structure & function of the Urinary System	Tutorial	Module Worksheet Topic 4.1 Structure & function of the Urinary System
	Structure & function of the Urinary System	Workshop	Lab Learning Sheet 5
9	Fluid, electrolytes & pH	Lecture	Course Text Chapter 25: Fluid and Electrolytes
	Fluid, electrolytes & pH	Tutorial	Module Worksheet Topic 4.2 Fluid, electrolytes & pH
	Fluid, electrolytes & pH	Workshop	Lab learning Sheet 5
	Lab 5: The Urinary & Reproductive System	Laboratory	Lab Learning Sheet 5
10	The Reproductive System: Structure & function; pregnancy; development; heredity	Lecture	Course Text Chapter 28: Reproductive System Chapter 29: Development, Pregnancy & Heredity

	The Reproductive System: Structure & function; pregnancy; development; heredity	Tutorial	Module Worksheet Topic 5.1 The Reproductive System
	The Reproductive System	Workshop	Concept drawings
11	Revision session: Exam Preparation	Tutorial	Trimester content

Assessment

This section sets out the assessment requirements for this course.

Summary of Assessment

Item	Assessment Task	Weighting	Relevant Learning Outcomes	Due Date
1	Weekly quizzes	20%	1,2,3	Weeks 1 - 10
2	Test or Quiz: Intra-Trimester Exam	30%	1,2,3	Week 6
3	End of Trimester Exam	50%	1,2,3	Examination Week

Assessment Details

Overall assessment in this course is designed to ensure students have attained the learning outcomes for the course. As this course is designed to provide foundational knowledge in biological sciences, students will be assessed primarily on their knowledge and understanding

of anatomy and physiology of the human body.

1. Weekly Quizzes

Rationale: These quiz items are designed to assist students studying biological sciences as they relate to nursing. Quizzes have been designed to guide student learning and to enhance learning outcomes in this course. Students will receive early and regular feedback on their performance.

Assessment details: These quizzes consist of ten questions each. The question style includes multiple choice, matching, and labelling. There are ten weekly quizzes each worth 2%.

Marking criteria: Each quiz will be marked in accordance with pre-determined model answers that have been internally moderated.

2. Intra Trimester Exam

Rationale: This individual assessment item is designed to assess the knowledge and understanding of the core concepts covered in the first part of the trimester. Including, Learning Outcomes 1, 2, 3.

Assessment details: This assessment item will contain a variety of questions including multiple choice, anatomical diagram labelling and short answer questions/responses. This is an open book exam, however, students can ONLY BRING their own completed lab learning sheets 1 – 3 as the open book resource. These laboratory learning sheets contain activities to be completed within the laboratory under direction, and also diagrams and questions to be answered with the support of students' text, tutor and tutorial activities. Laboratory learning sheets will be reviewed in the tutorial. Please note that content will focus on laboratories, including identification of anatomical structures, knowledge of anatomy, problem solving activities and analysis of experiments.

Due Date: Week 6

Marking criteria: This exam will be marked following a strict marking guide and will undergo a full moderation process.

3. Final Examination

Rationale: This individual assessment item is designed to assess the knowledge and understanding of the core concepts covered throughout the entire trimester. The exam will assess student learning stemming from core concepts covered in lectures, worksheets and laboratories presented during the whole course. Please note that content covered in laboratories will be assessed including identification of anatomical structures, knowledge of anatomy, problem solving activities and analysis of experiments.

Assessment details: The exam will consist of multiple choice questions, short answer questions and anatomical diagram labelling.

Marking criteria: This exam will be marked following a strict marking guide and will undergo a full moderation process.

Further details on assessment will be provided to students via the course site on Griffith College's Student Portal and in classes during the trimester.

Requirements to pass the course:

In order to pass this course and in addition to meeting the laboratory requirements, students must:

- a. submit a minimum of one weekly quiz, AND**
- b. attempt the mid trimester and final examinations, AND**
- c. achieve a minimum cumulative total of 50% from all graded assessments.**

Submission and Return of Assessment Items

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.

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
Oral Communication		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
Team Work		Yes	
Cultural Intelligence		Yes	
English Language Proficiency		Yes	Yes

Additional Course Generic Skills

Additional Course Information

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 on the Griffith College portal whenever these are available.

Student feedback on their courses can be found by going to 'Student feedback' under Support in the Griffith College Student Portal.

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.

In the case of a breach of academic integrity made against a student he or she may request the guidance and support of a Griffith College Student Learning Advisor or Student Counsellor.

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.

Risk Assessment Statement

This course follows Griffith College and Griffith University Workplace Health and Safety Laboratory guidelines.

The aim of workplace health and safety is to make sure that people do not get sick or injured at the workplace. The legislation dealing with this in Queensland is called the Workplace Health and Safety Act, 1995. Anyone who can affect workplace health and safety has an obligation under this Act.

As a student, you have an obligation to yourself and others to undertake activities in a safe manner. You must follow instructions which are provided for safety. You must not put yourself or anyone else at risk. Care especially needs to be taken when you are performing activities which can affect others. Please refer to the Laboratory Rules for Diploma of Health Care – available on the course site via the Griffith College MyStudy Student Portal.

Students must wear closed in shoes to all laboratory sessions for workplace health and safety reasons.

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