

1. General Course Information

1.1 Course Details

Course Code:	1808NRS
Course Name:	Human Anatomy & Physiology II
Trimester:	Trimester 2, 2022
Program:	Diploma of Health Care
Credit Points:	10
Course Coordinator:	Brock Grant
Document modified:	04 February 2022

Course Description

1808NRS builds on and extends the knowledge obtained in 1805NRS - Human Anatomy and Physiology 1, with students investigating the structure and function of the human body and key body system. This involves the role of homeostasis in the maintenance of metabolism, the primary functions of the cardiovascular, respiratory, renal, reproductive and gastrointestinal systems, 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. 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.

Assumed Knowledge

There are no pre-requisites for 1808NRS.

1.2 Teaching Team

Your teacher/s can be contacted via email as below:

You will also find their email in the Teacher's tile on your Course Site.

Name	Email
Brock Grant	Brock.grant@griffithcollege.edu.au

1.3 Meet with your teacher

Your teacher is available each week to meet outside of normal class times. This is called consultation. Times that your teacher will be available for consultation will be found on the Teacher's tile on your Course Site.

1.4 Timetable

Your timetable is available on the Griffith College Digital Campus at My Apps, Timetable.

1.5 Technical Specifications

All students must have access to a computer or suitable mobile device such as desktop, laptop, or tablet. In addition, up-to-date browser access, a reliable high-speed internet connection with enough upload and download capacity, a webcam and headset including microphone are needed.

2. Aims, Outcomes & Generic Skills

2.1 Course Aims

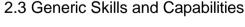
Rolls over from previous trimester, Course Co-ordinator updates as necessary.



2.2 Learning Outcomes

After successfully completing this course you should be able to:

The primary aim of 1808NRS is for students to understand the structure and function of the human body. This involves the role of homeostasis in the maintenance of metabolism, the primary functions of the cardiovascular, respiratory, renal, reproductive, and gastrointestinal systems, and the relevance of such knowledge to the maintenance of human health.



For further details on the Generic Skills please refer to the <u>Graduate Generic Skills and</u> Capabilities policy.

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 and Capabilities			Practised	Assessed
Acquisition of discipline knowledge and skills with critical judgement	8	✓	✓	✓
Communication and collaboration		✓	✓	
Self-directed and active learning		✓	√	
Creative and future thinking		✓	√	
Social responsibility and ethical awareness	ΔŢΔ	√	√	
Cultural competence and awareness in a culturally diverse environment	ŤŤŤ		✓	



3. Learning Resources

3.1 Required Learning Resources

Human Anatomy & Physiology II Workbooks & course material, which is located on the 1808NRS MyStudy course website on the Griffith College Student Portal.

3.2 Recommended Learning Resources

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

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

As 1808NRS involves practical laboratory sessions, appropriate safety equipment such as laboratory gowns, safety glasses and enclosed shoes must be purchased and brought to each practical lesson.

3.3 College Support Services and Learning Resources

Griffith College provides many facilities and support services to assist students in their studies. Links to information about support resources that are available to students are included below for easy reference.

- <u>Digital Library</u> Databases to which Griffith College students have access to through the Griffith Library Databases.
- Study Toolbox there is a dedicated website for this course on the Griffith College Digital Campus.
- Academic Integrity Griffith College is committed to ensuring academic integrity is understood and
 maintained by all staff and students. All students learn about academic integrity through engagement
 with Academic Integrity online modules within the Academic and Professional Studies course.
- <u>Services and Support</u> provides a range of services to support students throughout their studies including
 academic advice and assignment help from Student Learning Advisors, and personal and welfare
 support from Student Counsellors.
- <u>Jobs and Employment</u> in the Student Hub can assist students with career direction, resume and interview preparation, job search tips, and more.
- IT Support provides details of accessing support, information on s numbers and internet access and computer lab rules.

3.4 Other Information about your Learning

Preparation and Participation in Learning

You need to prepare before attending your scheduled learning experience. Work through the learning content prepared by your teacher which is found on the course site. Make sure you complete the learning activities set each week, they are designed to support your learning. Active participation in your learning will enhance your success. Ask questions when something is unclear or when you want to bring some issue to your teacher's attention; respond to questions to test your knowledge and engage in discussion to help yourself and others learn.

Attendance

You are expected to actively engage in all learning experiences which underpin the learning content in this course. You are expected to engage with the learning content and learning activities outside of timetabled class times. This requires you to be an active agent of your learning. You are expected to bring all necessary learning resources to class such as the required textbook and /or Workbook. In addition, you are encouraged to BYOD (bring your own device) to class such as a laptop or tablet. This is not a requirement as computer lab facilities are available on campus, however, the use of such devices in the classroom is encouraged with appropriate and considerate use principles being a priority.

Consultation Sessions

Teachers offer extra time each week to assist students outside the classroom. This is known as 'consultation time.' You may seek assistance from your teacher on email or in person according to how the teacher has explained this to the class. Attendance during consultation time is optional but you are encouraged to use this extra help to improve your learning outcomes.

Course Learning Materials

Learning materials are made available to you in the course site. The learning materials are arranged in Modules. In each Module you will find Learning Content, Learning Experiences and Learning Activities. Learning Content will be engaged with prior to the scheduled Learning Experience (your weekly class). This will ensure you are prepared for the scheduled Learning Experience by being aware of the content to be covered and therefore will be able to actively participate in the session. Learning Activities are accessed after the scheduled session for purposes of review, consolidation of learning, and preparation for the Evidence of Learning Tasks in the course.

In addition, **Anytime Anywhere** learning material is provided in the course. This learning material provides support, interactive tools and directions for students who occasionally cannot attend the weekly scheduled Learning Experience (either in person or on Zoom) perhaps due to illness or other commitments. The Anytime Anywhere learning material should also be used in conjunction with Learning Content and Learning Activities resources.

Self-Directed Learning

You will be expected to learn independently. This means you must organise and engage with the course learning content even when you are not specifically asked to do so by your teacher. The weekly guide will be helpful to organise your learning. This involves revising the weekly course learning material and completing the learning activities. It also means you will need to find additional information to evidence your learning beyond that given to you, and to construct your own response to a question or topic. All of this requires careful planning of your time. Expect to spend, on average, at least 10 hours per week including class time for each of your courses.

Program Progression

You are reminded that satisfactory Program Progression requires that attendance in classes is maintained at equal to or greater than 80%, students are engaged in their learning 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].

Teacher and Course Evaluation

Your feedback is respected and valued by your teachers. You are encouraged to provide your thoughts on the course and teaching, both positive and critical, directly to your teacher or by completing course and teacher evaluations via Griffith College's evaluation tool whenever these are available.



4. Learning Content, Learning Experiences and Learning Activities

4.1. Modules for Learning and Weekly Learning Content, Learning Experiences and Learning Activities

	Learning Content	Learning Experiences	Learning Activities	Evidence of Learning	Learning Outcome
	L			黨	
	Module 1: Cardiovascu	lar System			
1	Structure & function of the Cardiovascular System Introduction to the Cardiovascular System Cardiovascular System Cardiovascular circuits Heart anatomy Heart wall and coronary circulation Microscopic anatomy of cardiac muscle	Discussion of the course outline, course learning outcomes & evidence of learning task Team discussions of the primary function of each major structure within the heart, including the resulting effect should a structure stops working. Both individually & in pairs, begin working through the 1808NRS workbook with any work not completed in class to be set as a learning experience.	Course Text Chapter 19: Cardiovascul ar system: Heart pp.731 -750 Human Anatomy & Physiology workbook: Week 1 Viewing any supplementary material referenced on the moodle course page	Weekly online quiz (2% each)	1,2

		Various activities such as jeopardy/kahoot quizzes, question bingo etc			
2	Electrical activity of the Heart The heart's conduction system Conduction, action potentials and contraction Cardiac cycle Cardiac output Homeostatic control of cardiac output	Team discussions on the heart's anatomy, cardiovascular circuits & histology of cardiovascular tissue Human Anatomy & Physiology workbook - Week 2 Various activities such as jeopardy/kahoot quizzes, question bingo, etc Both individually & in pairs, begin working through the 1808NRS workbook with any work not completed in class to be set as a learning experience	Course Text Chapter 19: Cardiovascul ar System: Heart pp. pp.750 – 775 Human Anatomy & Physiology workbook: Week 2 Viewing any supplementary material referenced on the Moodle course page	Weekly online quiz (2% each)	1, 2
3	Blood vessels, circulation & lymphatics Blood vessel structure and function Capillary Exchange Blood flow, resistance and blood pressure Lymphatics	Team discussions of the vascularisation of the CVS, fluid exchange & blood flow Human Anatomy & Physiology workbook - Week 3 Various activities such as jeopardy/kahoot quizzes, question bingo, etc Both individually & in pairs, begin working through the 1808NRS workbook with any work not completed in class to be set as a learning experience	Course Text Chapter 20 & 21: CVS: Vessels and Circulation & Lymphatic System Human Anatomy & Physiology workbook: Week 3 View any supplementary videos posted on the 1808NRS course page	Weekly online quiz (2% each)	1, 2
	Module 2: Respiratory Sy	/stem	1		
4	Structure & function of the Respiratory System Introduction to the Respiratory System The lungs and respiration Introduction to pulmonary ventilation (breathing)	Team discussions on the conductive and respiratory pathways of the lungs & how they achieve respiration Human Anatomy & Physiology workbook - Week 4 Various activities such as jeopardy/kahoot quizzes, question bingo, etc	Course Text Chapter 23: Respiratory System Human Anatomy & Physiology workbook - Week 4 View any supplementary videos posted on the 1808NRS course page	Weekly online quiz (2% each)	1, 2

		Both individually & in pairs, begin working through the 1808NRS workbook with any work not completed in class to be set as a learning experience			
5	Lung volumes, capacity & breathing control Mechanics of pulmonary ventilation (breathing) Volume and capacity Alveolar and systemic gas exchange Gas transport Respiratory control	Team discussions on the multistep process of pulmonary ventilation & the transport of O2 & CO2 around the body. Human Anatomy & Physiology workbook - Week 5 Various activities such as jeopardy/kahoot quizzes, question bingo, etc Both individually & in pairs, begin working through the 1808NRS workbook with any work not completed in class to be set as a learning experience	Course Text Chapter 23: Respiratory System Human Anatomy & Physiology workbook - Week 5 View any supplementary videos posted on the 1808NRS course page	Weekly online quiz (2% each)	1, 2
	Module 3: GIT & Metabo	lism		1	I
6	Structure & function of the Digestive System Introduction to the Digestive System Histology of the gastrointestinal tract (GIT) Actions of the oral cavity, salivary glands and teeth Actions of the pharynx, esophagus, stomach & intestines Role of secondary digestive organs such as the pancreas and the gall bladder	Team discussions on how the primary and accessory digestive organs facilitate the breakdown & absorption of key nutrients and minerals. Human Anatomy & Physiology workbook - Week 6 Various activities such as jeopardy/kahoot quizzes, question bingo, etc Both individually & in pairs, begin working through the 1808NRS workbook with any work not completed in class to be set as a learning experience	Course Text Chapter 26: Digestive System Human Anatomy & Physiology workbook - Week 6 View any supplementary videos posted on the 1808NRS course page	Weekly online quiz (2% each)	1, 2

7	Introduction to nutrition Metabolism Macronutrient metabolism Heat (temperature) regulation Digestion of carbohydrates, proteins, lipids and nucleic acids	Team discussions on the general mechanisms in which organisms acquire and utilise the basic nutrients required for survival and their primary use within biological systems. Human Anatomy & Physiology workbook - Week 7 Various activities such as jeopardy/kahoot quizzes, question bingo, etc Both individually & in pairs, begin working through the 1808NRS workbook with any work not completed in class to be set as a learning experience	Course Text Chapter 27: Nutrition & Metabolism Human Anatomy & Physiology workbook - Week 7 View any supplementary videos posted on the 1808NRS course page	Weekly online quiz (2% each) Written Assignment (30%)	1, 2
	Module 4: Urinary Systen	1			
8	Renal structure and function Introduction to the Urinary System Kidneys Blood and filtered fluid flow Glomerular filtration Regulation of Glomerular filtration rate (GFR) Tubular reabsorption & secretion Urine formation, transport, storage and elimination	Team discussions on the general structures & the mechanisms in which the nephrons filter the blood, where key solutes are reabsorbed and the formation of urine. Human Anatomy & Physiology workbook - Week 8 Various activities such as jeopardy/kahoot quizzes, question bingo, etc Both individually & in pairs, begin working through the 1808NRS workbook with any work not completed in class to be set as a learning experience	Course Text Chapter 24: Urinary System Human Anatomy & Physiology workbook - Week 8 View any supplementary videos posted on the 1808NRS course page	Weekly online quiz (2% each)	1, 2

9	Fluid, electrolytes & pH Introduction to fluids, electrolytes & acidbase balance (pH) Body fluids Fluid balance Electrolyte & Acidbase balance (pH)	Team discussions on pH control, fluid balance and the movement of key solutes in the body. Human Anatomy & Physiology workbook - Week 9 Various activities such as jeopardy/kahoot quizzes, question bingo, etc	Course Text Chapter 25: Fluid and Electrolytes Human Anatomy & Physiology workbook - Week 19 View any supplementary videos posted on the 1808NRS course page	Weekly online quiz (2% each)	1, 2
		Both individually & in pairs, begin working through the 1808NRS workbook with any work not completed in class to be set as a learning experience			
	Module 5: Reproduction	n & Development			1
10	Reproduction & Development Introduction to the Reproductive System Male reproductive system	Team discussions on the primary and secondary sexual organs, endocrinological control of puberty, gametogenesis & the menstrual cycle.	Course Text Chapter 28: Reproductive System Chapter 29: Development, Pregnancy & Heredity Human Anatomy & Physiology workbook - Week 10	Weekly online quiz (2% each)	1, 2
	Female reproductive system Pregnancy	Human Anatomy & Physiology workbook - Week 10	View any supplementary videos posted on the 1808NRS		
	Labour	Various activities such as jeopardy/kahoot quizzes, question bingo, etc Both individually & in pairs, begin working	course page		
		through the 1808NRS workbook with any work not completed in class to be set as a learning experience			

4.2. Practical Laboratory Classes

The laboratory component of the course introduces the students to practical lessons pertaining to anatomy & physiology. It is expected of all students to complete the relevant workbook questions before attending each lab, then completing the remaining questions during each respective practical lesson. The laboratory workbook can be purchased from the bookstore or printed from the 1808NRS MyStudy site and must be brought to each laboratory session. Failure to have the relevant workbook may result in exclusion from the lab.

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) to the lead laboratory demonstrator. Students who miss a lab will be required to complete the relevant workbook section in their own time and have it checked and signed off by their tutor before the next consecutive lab.

Students will work in small teams to analyse experiments and develop problem solving skills, with the content covered in the lab classes being assessed during the mid-trimester and final examinations. An attendance roll will be maintained for all lab classes. Students are expected to attend their scheduled laboratory class, punctuality is

important.

Whilst in the lab, students must comply with all workplace and laboratory health and safety protocols & all instructions provided by the laboratory demonstrators or members of the laboratory technical service team. Additionally, Shoes appropriate for a nursing clinical laboratory session must be worn in all 1808NRS laboratory sessions.

Failure to comply with health and safety instructions or the instructions of your laboratory demonstrators within the lab will result in 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 the Human Anatomy & Physiology workbooks will be provided on the course site, and in the first lecture..

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5. Evidence of Learning

5.1 Evidence of Learning Summary

	Evidence of Learning	Weighting	Learning Outcome	Due Date
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1	Weekly Online Quiz	2% each, 20% total	1, 2	Weekly
2	Written Assignment	30%	1, 2	Week 7
3	End of Trimester Exam	50%	1, 2	Exam Week

5.2 Evidence of Learning Task Detail

1. Evidence of Learning Task 1: Weekly quizzes (20%)

Task Type: Online quizzes

Due Date: Weekly

Weight: 20% (2% each quiz), Marked out of: 10

Length: 10 Questions

Task Description: Weekly online quizzes are designed to assist students memorisation and understanding of anatomy & physiology in a formative manor. Each quiz is worth 2% each and serves to reinforce & promote the content taught in that week whilst simultaneously providing students with instantaneous feedback regarding their progress throughout 1808NRS. Each quiz will open at the end of that weeks lesson and will remain open until the beginning of next week's lesson, granting students approx. 7 days to complete the quiz.

Criteria and Marking: Students are assessed on that weeks course material

Submission: Online quiz

2. Evidence of Learning Task 2: Written Assignment (30%)

Task Type: Written Assignment

Due Date: Week 7

Weight: 30%, Marked out of: 30

Length: (1000 words)

Task Description: For this assignment students will be provided with a selection of brief clinical case scenarios and be required to answer a series of questions based on these scenarios. The aim of this assignment is to apply the knowledge you have developed from material covered in weeks 1-5 of this trimester. Students will have an opportunity to discuss their understanding of the anatomy and physiology of the cardiovascular and respiratory

systems and how they function together to maintain homeostasis. A full explanation and comprehensive detail about this Evidence of Learning Task is located in the Evidence of Learning Task section on the course website. **Criteria and Marking:** There is a 1000-word limit for this written assignment. Word limits for Evidence of Learning Tasks need to be strictly adhered to. The word limit for an assessment task includes in text citations, tables and quotations. The word limit DOES NOT include the reference list. Please note the marker will cease marking your submitted work once they have reached the allocated word limit.

Submission: Turnitin via the course site

3. Evidence of Learning Task 3: Final Examination (50%)

Task Type: Examination Due Date: Exam Week

Weight: 50%, Marked out of: 70

Length: (n/a)

Task Description: The end of trimester exam is designed to assess the knowledge and understanding of the core concepts covered throughout the entire trimester, provided to students in the form of learning objectives presented at the beginning & end of every lecture.

Criteria and Marking: Students are assessed on the core concepts covered in learning experiences, inclusive of anatomical structures, physiological processes and analysis of data pertaining to human systems.

Submission: Online exam

In order to pass this Course, students must:

- A. Attempt written Evidence of Learning Tasks and final examination, AND
- B. Achieve a minimum cumulative total of 50% from all graded Evidence of Learning Tasks.

5.3 Late Submission

An Evidence of Learning Task submitted after the due date, without an approved extension from the teacher, will be penalised. The standard penalty is the reduction of the mark allocated to the Evidence of Learning Task by 5% of the maximum mark applicable for the Evidence of Learning Task, for each working day or part working day that the task is late. Evidence of learning tasks submitted more than five working days after the due date are awarded zero marks.

Please refer to the Griffith College website - Policy Library > <u>Assessment Policy</u> for guidelines and penalties for late submission.

5.4 Other Information about Evidence of Learning

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.

Requests for extension

To apply for an extension of time for an evidence of learning task, you must submit an <u>Application for Extension of Assignment</u> 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. <u>Griffith College Student Medical Certificate</u>]. Please refer to the Griffith College website – <u>Policy Library</u> for guidelines regarding extensions and deferred Evidence of Learning Tasks.

Return of Evidence of Learning Tasks

- Marks awarded for in-trimester evidence of learning tasks, except those being moderated externally
 with Griffith University, will be available on the course site within fourteen [14] days of the due date.
 This does not apply to the final evidence of learning task in this course (marks for this task will be
 provided with the final course result).
- Students will be advised of their final grade through the Digital Campus. Students can review their final exam papers after student grades have been published. Review of final exam papers will not be permitted after the final date to enrol.
- 3. Marks for **all** evidence of learning tasks including the final exam (if applicable) will be recorded in the Course Site and made available to students through the Course Site.

The sum of your marks of evidence of learning tasks in this course does not necessarily imply your final grade for the course. Standard grade cut off scores can be varied for particular courses, so you need to wait for the official release of grades to be sure of your grade for this course.

Policies & Guidelines

Griffith College Evidence of Learning Tasks-related policies can be found in the Griffith College Policy Library which include the following policies:

Assessment Policy, Special Consideration, Deferred Assessment, Alternate Exam Sittings, Medical Certificates, Academic Integrity, Finalisation of Results, Review of Marks, Moderation of Assessment, Turn-it-in Software

Use. These policies can be accessed within the Policy Library

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, premeditated 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 teachers 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 an allegation of a breach of academic integrity being 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 Griffith College website - Policy Library > Academic Integrity Policy

Reasonable Adjustments for Evidence of Learning Tasks - The Disability Services policy

The <u>Disability Services policy</u> (accessed within the <u>Policy Library</u>) outlines the principles and processes that guide the College in making reasonable adjustments to Evidence of Learning Tasks for students with disabilities while maintaining academic robustness of its programs.

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. Additional Laboratory Rules if applicable will be available on the course site via the Griffith College Digital Campus.

It is imperative that students follow all health and safety procedures & clinical nursing guidelines, as well as any staff instructions given whilst in the lab.

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Note: Griffith College acknowledges content derived from Griffith University in Diploma level courses, as applicable.