Pathways and Academic Learning Support Centre

EPBIOL 259: Introductory Human Bioscience

Online

Semester 1 - 2024

The Pathways and Academic Learning Support Centre recognises and respects the unique history and culture of Aboriginal and Torres Strait Islander peoples and their unbroken relationship with the lands and the waters of Australia over millennia. We are dedicated to reconciliation and to offering opportunities for Aboriginal and Torres Strait Islander peoples to access and succeed in higher education. The Centre is committed to providing a culturally safe and inclusive environment for all.

OVERVIEW

Course Description

Introductory Human Bioscience introduces students to concepts of relevance to the study of undergraduate human anatomy and physiology. Topics include an introduction to anatomy and physiology (medical terminology, directional terms and body planes), homeostasis, the components and functions of cells, cellular transport mechanisms, tissues and organs, body systems, body functions and important biochemical reactions. Students will develop skills in observation, critical thinking, research and communication.

Academic Progress Requirements

Nil

Requisites

If you have successfully completed or are enrolled in EPCHEM314, EPHLTH270 or EPHLTH370 you cannot enrol in this course.

Contact Hours

Self-Directed Learning
Self-Directed
2 hour(s) per week(s) for 12 week(s) starting Week 1
Self-Directed learning is equivalent to face-to-face contact hours. It involves engagement with course materials that are delivered at a time that suits you via short videos, course notes, podcasts, readings and other activities.

Tutorial
Online
1 hour(s) per week(s) for 12 week(s) starting Week 1

Unit Weighting

10

Workload

Students are required to spend on average 120-140 hours of effort (contact and non-contact) including assessments per 10 unit course.

COURSE OUTLINE

www.newcastle.edu.au
CRICOS Provider 00109J

CONTACTS

Course Coordinator

Ms Zlata Johnson
Zlata.Johnson@newcastle.edu.au
Consultation: Please email to schedule an appointment.

Teaching Staff

Other teaching staff will be advised on the course Canvas site.

School Office

Callaghan
Ground Floor, General Purpose Building (GP)
Ph: 02 4921 5558
enabling@newcastle.edu.au

Ourimbah
HO 168, Humanities Building
Ph: 02 4348 4076
enabling@newcastle.edu.au

SYLLABUS

Course Content

- Introduction to the study of anatomy and physiology
- Cellular organisation I: structure and membrane transport
- Cellular organisation II: protein synthesis and mitosis
- Tissue level of organisation
- Skeletal system
- Muscular system
- Nervous system
- Endocrine system
- Cardiovascular system: blood
- Circulatory system: heart and blood vessels
- Lymphatic and immune system
- Respiratory system
- Digestive system and metabolism

Course Learning Outcomes

On successful completion of this course, students will be able to:

1. Express scientific ideas in a logical, concise and coherent fashion.
2. Communicate scientific ideas.
3. Use scientific method in practical contexts.
4. Solve simple problems in both practical and theoretical contexts.
5. Identify and choose appropriate sources of scientific information using the library catalogue.
6. Prepare a scientific report to address a scientific question, citing the sources of information using the specified referencing format.

Course Materials

All course materials will be provided on the course Canvas site. Students are not required to purchase a textbook.

SCHEDULE

Week	Week Begins	Topic	Learning Activity	Assessment Due
1	26 Feb	Introduction to the study of anatomy and physiology	Tutorial 1	
2	4 Mar	Cellular organisation I: structure and membrane transport	Tutorial 2	Quiz 1 due by 11:59pm on Sunday 10th March
3	11 Mar	Cellular organisation II: protein synthesis and mitosis	Tutorial 3	Quiz 2 due by 11:59pm on Sunday 17th March
4	18 Mar	Tissue level of organisation	Tutorial 4	Quiz 3 due by 11:59pm on Sunday 24th March
5	25 Mar	Musculoskeletal system	Tutorial 5	Quiz 4 due by 11:59pm on Sunday 31st March
6	1 Apr	Nervous system	Tutorial 6	**Mid-Semester Test due by 11:59pm on Saturday 6th April** Quiz 5 due by 11:59pm on Sunday 7th April
7	8 Apr	Endocrine system	Tutorial 7	Quiz 6 due by 11:59pm on Sunday 14th April
Recess				
Recess				
8	29 Apr	Cardiovascular system I: Blood	Tutorial 8	Quiz 7 due by 11:59pm on Sunday 5th May
9	6 May	Cardiovascular system II: Heart and blood vessels	Tutorial 9	Quiz 8 due by 11:59pm on Sunday 12th May
10	13 May	Lymphatic system and immunity	Tutorial 10	**Research Assignment due by 11:59pm on Sunday 19th May** Quiz 9 due by 11:59pm on Sunday 19th May
11	20 May	Respiratory system	Tutorial 11	Quiz 10 due by 11:59pm on Sunday 26th May
12	27 May	Digestive system & metabolism	Tutorial 12	Quiz 11 due by 11:59pm on Sunday 2nd June
13	3 Jun	No classes	No classes	
Examination Period				
Examination Period				

ASSESSMENTS

This course has 5 assessments. Each assessment is described in more detail in the sections below.

	Assessment Name	Due Date	Involvement	Weighting	Learning Outcomes
1	Online Quizzes	Sunday 11:59pm Weeks 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13	Individual	15%	4
2	Mid-Semester Test	Saturday 6th April 11:59pm	Individual	15%	1, 2, 4
3	Laboratory Report	Sunday 9th June 11:59pm	Individual	10%	1, 2, 3, 4
4	Research Assignment	Sunday 19th May 11:59pm	Individual	20%	1, 2, 5, 6
5	Final Examination	During formal examination period	Individual	40%	1, 2, 4

Late Submissions The mark for an assessment item submitted after the designated time on the due date, without an approved extension of time, will be reduced by 5% of the possible maximum mark for that assessment item for each day or part day that the assessment item is late. Note: this applies equally to week and weekend days.

Assessment 1 - Online Quizzes

Assessment Type	Quiz
Description	12 online quizzes will be completed online via Canvas. 1 per week of semester starting in Week 2. Your combined results from these quizzes will contribute to a total of 15% of your final grade / mark. Each quiz consists of 10 multiple choice questions based on material contained in the previous week's tutorials and readings. Quizzes will become available at 12:00am each Monday from Week 2 of semester and will remain open for the week, closing at 11:59pm Sunday. Each quiz is timed and must be completed in 20 minutes and can be attempted twice with your highest mark contributing to your final grade. Please note: Each quiz will lock at 11:59pm on the specified due date. Students unable to complete quizzes due to adverse circumstances should contact the Course Coordinator prior to quiz shutdown dates and times.
Weighting	15%
Due Date	Sunday 11:59pm Weeks 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13
Submission Method	Online
Assessment Criteria	Correct answers
Return Method	Online
Feedback Provided	Feedback will be provided in Canvas

Assessment 2 - Mid-Semester Test

Assessment Type	In Term Test
Description	The mid-semester test will examine and assess your understanding of course material covered in lectures, tutorials and readings from Weeks 1-5. This is a 60 minute open-book exam and will be held online in Week 6. Answers must be your own and copying and pasting from other sources is NOT permitted. The exam consists of both multiple-choice questions and short answer questions based on content covered in weeks 1 through 5 inclusive.
Weighting	15%
Due Date	Saturday 6th April 11:59pm
Submission Method	Online
Assessment Criteria	Correct answers
Return Method	Not returned
Feedback Provided	Feedback will be provided in Canvas

Assessment 3 - Laboratory Report

Assessment Type	Tutorial / Laboratory Exercises
Description	Students are provided with a laboratory workbook and are required to complete relevant sections while using the online materials provided, suggested textbook and other appropriate resources. Practical activities/questions are related to theory taught during the course.
Weighting	10%
Due Date	Sunday 9th June 11:59pm
Submission Method	Online
Assessment Criteria	Correct answers
Return Method	Not returned
Feedback Provided	Feedback will be provided in Canvas

Assessment 4 - Research Assignment

Assessment Type Written Assignment
Description Students will prepare a written, research-based and referenced scientific report. All assignments must be fully referenced using APA7 referencing style and be submitted online via Canvas for grading.
Weighting 20%
Due Date Sunday 19th May at 11:59pm
Submission Method Online
Assessment Criteria Rubric provided on Canvas
Return Method Online
Feedback Provided Feedback will be provided in Canvas

Assessment 5 - Final Examination

Assessment Type Online Open Book Formal Examination
Description This is an open book exam. Copying and pasting from online or other sources is not permitted. The examination will be based on material covered in lectures, tutorials and readings; and will consist of BOTH multiple-choice questions and short answer questions. You will be given more information about this examination later in the course.
Weighting 40%
Due Date During formal examination period
Submission Method Online
Assessment Criteria Correct answers
Return Method Not returned
Feedback Provided No feedback will be provided for this assessment

ADDITIONAL INFORMATION

Grading Scheme This course is graded as follows:

Range of Marks	Grade	Description
85-100	High Distinction (HD)	Outstanding standard indicating comprehensive knowledge and understanding of the relevant materials; demonstration of an outstanding level of academic achievement; mastery of skills*; and achievement of all assessment objectives.
75-84	Distinction (D)	Excellent standard indicating a very high level of knowledge and understanding of the relevant materials; demonstration of a very high level of academic ability; sound development of skills*; and achievement of all assessment objectives.
65-74	Credit (C)	Good standard indicating a high level of knowledge and understanding of the relevant materials; demonstration of a high level of academic achievement; reasonable development of skills*; and achievement of all learning outcomes.
50-64	Pass (P)	Satisfactory standard indicating an adequate knowledge and understanding of the relevant materials; demonstration of an adequate level of academic achievement; satisfactory development of skills*; and achievement of all learning outcomes.
0-49	Fail (FF)	Failure to satisfactorily achieve learning outcomes. If all compulsory course components are not completed the mark will be zero. A fail grade may also be awarded following disciplinary action.

Communication Methods **Email** is the principal form of communication at the university and within this course. Always use your student email (NUmail), rather than a private email address, and check this regularly. As Course Coordinator I will try to respond to your email within three (3) working days. I will not normally respond to emails over the weekends. Please be courteous in your email communication and in the online space.

Canvas is used to distribute course material, announcements and other information. It is also used for online quizzes and to allow students to track their individual progressive assessment results throughout the semester via Grades.

Discussions forums in Canvas can be used to ask questions about minor issues. Students are strongly encouraged to use these to communicate with each other, discuss issues relating to the course, and solve minor problems.

Attendance and Engagement

In addition to face-to-face hours in class, out-of-class study and related work will require an additional commitment of up to 10 hours per week of reading, preparation, and study time over the semester. Students are required to spend on average 120-140 hours of effort (contact and non-contact hours including assessment) per semester per 10 unit course.

To maximise your learning opportunities, you should read all relevant material prior to attending class.

It is strongly recommended that you attend your classes every week. Our data shows that you will get better results if you attend class with your peers. If you do have to miss a class, you should catch up on any missed work by accessing lecture recordings if you are enrolled face-to-face. While online tutorials are recorded, on-campus tutorials are not, so you should view other resources available on your Canvas site and contact your course coordinator if you would like advice on how to best catch up on any material that was missed. **If you are unable to attend classes regularly you should reach out to your course coordinator as soon as possible to discuss ways that you can continue to engage with the learning material.**

A plan of regular revision throughout the semester is also strongly recommended to help you manage your time, consolidate information and retain that knowledge for the duration of the course and beyond.

Assessment items have been designed to reinforce and revise the course material, and ensure you are up to date with course content. You are required to submit all assessable items by the due dates unless prior arrangements have been made.

Additional Contact Details

If you have any questions about your course, please speak with your course coordinator, lecturer or tutor first. For general enquiries, please contact the Pathways and Academic Learning Support Centre Office or your Student Liaison Officer. Contact details for both the office and Student Liaison Officers can be found here.

Yapug students can also contact your Indigenous Enabling Learning Advisor Hannah Pipe or your Program Convenor Dan Collins.

Final Examination

This course has a formal examination. All formal examinations will be held during the University's Examination Period. Your exam timetable will be available approximately 4 weeks before the exam period and you must ensure that you are available to undertake your exam at any time during the Examination Period.

If you are unable to attend a scheduled examination due to illness or you have another significant, verifiable reason, contact the Pathways and Academic Learning Support Office and advise your lecturer at the earliest opportunity. Completion of an online Adverse Circumstances application including appropriate documentation is required.

If you have a permanent or temporary disability or medical condition that means you may need adjustments made during your examination, you must register with AccessAbility at the start of semester so that these arrangements can be made.

If you have a Reasonable Adjustment Plan (RAP), your examination will be scheduled in accordance with it. If you are unable to attend your scheduled examination due to illness or other circumstance, you will need to submit and online Adverse Circumstances application and supply appropriate documentation to support your application. Your RAP is not able to be used as your documentation.

Adverse Circumstances	The University acknowledges the right of students to seek consideration for the impact of allowable adverse circumstances that may affect their performance in assessment item(s). Applications for Adverse Circumstances must be lodged via the online Adverse Circumstances system for all individual assessment items worth 30% or greater **by 11:00pm on the day the assessment is due**. For assessment items less than 30%, you will need to contact your Course Coordinator by 11:00pm on the due date of the assessment item. Before applying you must refer to the Adverse Circumstances Affecting Assessment Items Procedure and the Adverse Circumstances Affecting Assessment Items Policy. Please note that students must submit their adverse circumstances application via the online Adverse Circumstances system by 11:00pm on the due date of the assessment item, even if you are using a Reasonable Adjustment Plan (RAP) as your supporting documentation.
Written Assessment Word Limits	If this course includes written assessments, the word limit listed will include headings, sub-heading, in-text citations, quotes and referencing but does not include the list of references, appendices and footnotes. You will not receive a penalty for exceeding the word limit (there is a tolerance of up to 10%), but any work after the maximum word limit may not be included within the allocation of marks.
Academic Misconduct	All students are required to meet the academic integrity standards of the University. These standards reinforce the importance of integrity and honesty in an academic environment. Academic Integrity policies apply to all students of the University in all modes of study and in all locations. Please refer to the Student Academic Integrity Policy.
Oral Interviews (Vivas)	As part of the evaluation process of any assessment item in this course an oral examination (viva) may be conducted. The purpose of the oral examination is to verify the authorship of the material submitted in response to the assessment task. The oral examination will be conducted in accordance with the principles set out in the Oral Examination (viva) Procedure. In cases where the oral examination reveals the assessment item may not be the student's own work the case will be dealt with under the Student Conduct Rule.
Workplace Health and Safety Requirements	There are no specific WH&S requirements for this course.
Software	Free Microsoft Office software is available to enrolled students here and includes 5 TB of free cloud storage with OneDrive.
Timetable	Your timetable for this course is available via the myUni Student Portal and can also be found here.
Course Evaluation	Each year feedback is sought from students and other stakeholders about the courses offered in the University for the purposes of identifying areas of excellence and potential improvement.
Important Policy Information	The Help button in the Canvas Navigation menu contains helpful information for using the Learning Management System. Students should familiarise themselves with the policies and procedures that support a safe and respectful environment at the University.

This course outline was approved by the Director, PALS. No alteration of this course outline is permitted without Director approval. If a change is approved, students will be notified and an amended course outline will be provided in the same manner as the original.