

EPBIOL 259: Introductory Human Bioscience

Online

Semester 2 - 2023



THE UNIVERSITY OF
NEWCASTLE
AUSTRALIA

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.

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 for 12 Weeks

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 for 12 Weeks

Workshop

Face to Face On Campus

6 hour(s) per Term Full Term

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	Dr Jennifer Baker Jennifer.R.Baker@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	<ul style="list-style-type: none">• 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	<p>On successful completion of this course, students will be able to:</p> <ol style="list-style-type: none">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	<p>All course materials will be provided on the course Canvas site.</p> <p>Recommended text</p> <p>Saladin, K.S., McFarland, R.K. (2022). <i>Essentials of Anatomy and physiology</i>. Third edition. McGraw-Hill Education. New York.</p>

SCHEDULE

Week	Week Begins	Topic	Learning Activity	Assessment Due
1	17 Jul	Introduction: The study of anatomy and physiology	No tutorials in week 1	Online quiz 1 opens
2	24 Jul	Cellular organisation I: Structure and membrane transport	Tutorial 1	Online quiz 2 opens
3	31 Jul	Cellular organisation II: Protein synthesis & mitosis	Tutorial 2	Online quiz 3 opens Quizzes 1 & 2 due Sunday, 6 August, 11:59 pm
4	7 Aug	Tissue level of organisation	Tutorial 3	Online quiz 4 opens
5	14 Aug	Skeletal system Muscular system	Tutorial 4	Online quiz 5 opens Quizzes 3 & 4 due Sunday, 20 August, 11:59 pm
6	21 Aug	Nervous system	Tutorial 5	Online quiz 6 opens Mid-semester exam due Week 6, 11:59 pm
7	28 Aug	Endocrine system	Tutorial 6	Online quiz 7 opens Quizzes 5 & 6 due Sunday, 3 September, 11:59 pm
8	4 Sep	Circulatory system: Blood	Tutorial 7	Online quiz 8 opens
9	11 Sep	Cardiovascular system: Heart and blood vessels	Tutorial 8	Online quiz 9 opens Quizzes 7 & 8 due Sunday, 17 September, 11:59 pm
10	18 Sep	Lymphatic system & immunity	Tutorial 9	Online quiz 10 opens Research assignment due Sunday, 24 September, 11:59 pm
Mid Term Break				
Mid Term Break				
11	9 Oct	Respiratory system	Tutorial 10	Online quiz 11 opens Quizzes 9 & 10 due Sunday, 15 October, 11:59 pm Lab report due Sunday, 15 October, 11:59 pm
12	16 Oct	Digestive system & metabolism	Tutorial 11	Online quiz 12 opens
13	23 Oct	No classes		Quizzes 11 & 12 due Sunday, 29 October, 11:59 pm
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	Quizzes are due to be submitted by 11:59pm on the due date: Quizzes 1 & 2 Sunday 6 August Quizzes 3 & 4 Sunday 20 August Quizzes 5 & 6 Sunday 3 September Quizzes 7 & 8 Sunday 17 September Quizzes 9 & 10 Sunday 15 October Quizzes 11 & 12 Sunday 29 October	Individual	15%	4
2	Mid-Semester Test	Week 6, 11:59 pm Sunday 27 Aug	Individual	15%	1, 2, 4
3	Laboratory Report	Week 11, 11:59 pm Sunday 15 October	Individual	10%	1, 2, 3, 4
4	Research Assignment	Week 10, 11:59 pm Sunday 24 September	Individual	20%	1, 2, 5, 6
5	Final Examination	Formal Exam 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 Description

Quiz

The quizzes consist of 10 multiple choice questions based on that weeks' lectures and text readings. Quizzes are timed and must be completed in 20 minutes. You have two opportunities to complete each quiz, with your best mark contributing to your final grade. The quizzes are designed to test your knowledge and give feedback about your level of conceptual knowledge.

Weighting

15%

Due Date

Weeks 3, 5, 7, 9, 11, 13

Submission Method

Online

Assessment Criteria

Accurate answers

Return Method

Online

Feedback Provided

Online

Assessment 2 - Mid-Semester Test

Assessment Type Description

In Term Test

The mid-semester test is an open book exam and will be held online in Week 6. Copying and pasting from online or other sources is not permitted. The exam consists of multiple choice and short answer questions based on the content of weeks 1-5, inclusive.

Weighting

15%

Length

50 minutes

Due Date

Week 6

Submission Method

Online

Assessment Criteria

Accurate answers

Return Method

Not returned

Feedback Provided

Marks are released via Grades in Canvas. General feedback is provided online. Students may request individual feedback.

Assessment 3 - Laboratory Report

Assessment Type	Laboratory Exercises
Description	Students are provided with a laboratory workbook and complete the relevant sections while using the online materials supplied, the textbook, and other appropriate resources.
Weighting	10%
Due Date	Week 11 – Sunday 15 October
Submission Method	Online
Assessment Criteria	A marking rubric will be provided.
Return Method	Online
Feedback Provided	Online

Assessment 4 - Research Assignment

Assessment Type	Written Assignment
Description	Students will prepare a written, research-based and referenced report. All assignments must be fully referenced using APA 7 th referencing style and are submitted online. Referencing notes and access to library assistance are included in Canvas. 1000 words +/- 10 % (excluding references, figures, and table captions).
Weighting	20%
Due Date	Week 10 – Sunday 24 September
Submission Method	Online
Assessment Criteria	A marking rubric will be provided.
Return Method	Online
Feedback Provided	Online

Assessment 5 - Final Examination

Assessment Type	Formal Examination
Description	The final exam is designed to give students the opportunity to demonstrate an understanding of introductory human anatomy and physiology in an examination setting. The final exam is an open book exam. Copying and pasting from online or other sources is not permitted. The exam consists of multiple choice and short answer questions. Please be aware that these exams may be held during the evening or on a Saturday.
Weighting	40%
Due Date	Formal examination period
Submission Method	Formal Exam
Assessment Criteria	Accurate answers
Return Method	Not returned
Feedback Provided	No feedback

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.

*Skills are those identified for the purposes of assessment task(s).

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. The University of Newcastle has a [Social Media Communication Guideline](#) that covers all communications in the University for staff and students.

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. Recordings of the lectures will also be available.

Discussions: You can ask questions about minor issues on the Discussion forums. Students are strongly encouraged to use these to communicate with each other, discuss issues relating to the course, and solve minor problems.

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. Additional contacts will be available on your Canvas site.

Pathways and Academic Learning Support Centre 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

Student Liaison Officer

PALS-SLO@newcastle.edu.au

Yapug	Indigenous Enabling Learning Advisor Hannah Pipe Birabahn Building Ph: 02 4921 7952 Hannah.Pipe@newcastle.edu.au	Program Convenor Dan Collins SAS-217, Birabahn Building Ph: 02 4055 3266 Daniel.Collins@newcastle.edu.au
Attendance and Engagement	<p>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 including assessment) per semester per 10 unit course.</p> <p>To maximise your learning opportunities, you should read all relevant material prior to attending lectures and tutorials.</p> <p>It is strongly recommended that you attend your lectures and tutorials every week. Our data shows that you will get better results if you attend these classes with your peers. If you do have to miss a class, you should catch up on any missed work by accessing lecture recordings and resources available on your Canvas site. If you cannot attend at least 50% of your tutorials, please contact your Course Coordinator or Student Liaison Officer and discuss the options.</p> <p>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.</p> <p>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.</p>	
Timetable	Your timetable for this course is available via the myUni Student Portal and can also be found here .	
Software	Free Microsoft Office software is available to enrolled students here and includes 5 TB of free cloud storage with OneDrive.	
Written Assessment Word Limits	Word limits for your written assessments includes 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.	
Final Examination	<p>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.</p> <p>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.</p> <p>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.</p> <p>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 an online Adverse Circumstances application and supply appropriate documentation to support your application. Your RAP is not able to be used as your documentation.</p>	

Adverse Circumstances	<p>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).</p> <p>Applications for special consideration due to adverse circumstances will be made using the online Adverse Circumstances system where:</p> <ol style="list-style-type: none">1. the assessment item is a major assessment item; or2. the assessment item is a minor assessment item and the Course Co-ordinator has specified in the Course Outline that students may apply the online Adverse Circumstances system;3. you are requesting a change of placement; or4. the course has a compulsory attendance requirement. <p>Before applying you must refer to the Adverse Circumstances Affecting Assessment Items Procedure.</p> <p>In the Pathways and Academic Learning Support Centre, applications for Adverse Circumstances must be lodged via the online Adverse Circumstances system for all individual assessment items worth 30% or greater.</p>
Oral Interviews (Vivas)	<p>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.</p>
Academic Misconduct	<p>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.</p>
Student Support	<p>A wide range of help, advice and support sessions will be available during your studies and emails will be sent throughout the semester as a reminder at key times.</p>
Course Evaluation	<p>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.</p>
Important Policy Information	<p>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.</p>
Workplace Health and Safety Requirements	<p>There are no specific WH&S requirements for this course.</p>

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.

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