



Course Outline

Code: LFS202 Title: Systemic Physiology II

School of: Health & Sport Sciences

Teaching Session: Semester 2

Year: 2020

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Course Moderator: Dr Anna Kuballa, Email: LFS202@usc.edu.au

Please go to the USC website for up to date information on the teaching sessions and campuses where this course is usually offered.

1. What is this course about?

1.1 Description

Systems studied in the second semester advanced physiology course include the endocrine system; the urinary system and fluid, electrolyte and acid/base balance; blood physiology and histology; the nonspecific body defences and immunity; temperature regulation; the digestive system; the reproductive system; pregnancy and aspects of foetal physiology. The emphasis in this course is the regulation of homeostasis by the endocrine system and it further prepares you for study of pathophysiology.

1.2 Course topics

- Temperature Regulation
- Endocrine System
- Digestive System
- Urinary System
- Fluid, Electrolyte and Acid/base balance
- Physiology of the Special Senses
- Lymphatic System and Immune System
- Physiology & Anatomy of Blood
- Reproductive System & Physiology of Pregnancy

2. What level is this course?

200 level Developing - Applying broad and/or deep knowledge and skills to new contexts. May require pre-requisites and introductory level knowledge/skills. Normally undertaken in the 2nd or 3rd year of an undergraduate program

3. What is the unit value of this course?

12 units

4. How does this course contribute to my learning?

Specific Learning Outcomes	Assessment Tasks	Graduate Qualities or Professional Standards mapping
On successful completion of this course you should be able to:	You will be assessed on the learning outcome in task/s:	Completing these tasks successfully will contribute to you becoming:
Demonstrate development of depth and breadth of knowledge in the discipline of physiology relevant to the systems covered	Tasks 1, 2 & 3	Knowledgeable.
Communicate scientific results and interpretations according to the conventions of the physiology discipline.	Task 1 and 3	Ethical. Knowledgeable.
Critically analyse and solve physiology problems by collecting, accurately recording, interpreting, drawing conclusions and presenting according to the conventions of the physiology discipline	Tasks 1 & 3	Knowledgeable.

5. Am I eligible to enrol in this course?

Refer to the [USC Glossary of terms](#) for definitions of “pre-requisites, co-requisites and anti-requisites”.

5.1 Enrolment restrictions

Nil

5.2 Pre-requisites

LFS201

5.3 Co-requisites

Nil

5.4 Anti-requisites

Nil

5.5 Specific assumed prior knowledge and skills (where applicable)

It is assumed that you have completed the 1st year course SCL110 Science Research Methods and have a basic understanding of statistics

6. How am I going to be assessed?

6.1 Grading scale

Standard – High Distinction (HD), Distinction (DN), Credit (CR), Pass (PS), Fail (FL)

6.2 Details of early feedback on progress

You will receive early feedback in various ways. These include access to weekly online quizzes, which will be provided so you can check your understanding and comprehension of the physiology concepts

6.3 Assessment tasks

Task No.	Assessment Tasks	Individual or Group	Weighting %	What is the duration / length?	When should I submit?	Where should I submit it?
1	Tutorial and Practical Class Portfolio	Individual	20	≥1500 cumulative	Weeks 3-12	In class/ Blackboard
2	Mid-semester exam	Individual	30	1hr	Week 6	Blackboard
3	End of semester examination	Individual	50	2 hr	Centrally scheduled exam period	Examination venue/ Blackboard
			100%			

Assessment Task 1: Tutorial and Practical Class Portfolio

Goal:	To actively engage in the theoretical and practical components and to facilitate learning.
Product:	Includes various exercises and activities stemming from the lectures, laboratory and tutorial classes to assist you in learning.
Format:	You will prepare and actively participate in laboratory and tutorial classes by completing exercises before, during, and after class. This can include written responses to preparatory questions; collection, statistical analysis, graphing and interpretations of data; and active participation in classes. Further details will be provided on Blackboard in the specific assessment areas.
Criteria:	You will be assessed on the following <ul style="list-style-type: none"> • Demonstration of how the human body regulates and coordinates bodily functions (in the systems covered in (LFS202) • Demonstration of knowledge of the theoretical content • Ability to critically analyse and solve physiology problems • Ability to communicate scientific results and interpretations to a scientific audience • Ability to collect, accurately record, interpret and draw conclusions from physiology experiments

Assessment Task 2: Hormone Assignment

Goal:	The goal of the examination is to assess your understanding of and ability to apply knowledge of the theory content of the course up until Week 5.
Product:	Written invigilated examination.
Format:	A one hour examination consisting of multiple choice questions.
Criteria:	You will be assessed on the following: <ul style="list-style-type: none"> • demonstration of knowledge of the theoretical content • ability to provide correct answers to questions on the theoretical content sourced from the course lectures, tutorials, laboratory classes and readings • ability to apply knowledge from lectures and readings to problems

Assessment Task 3: End of Semester Examination

Goal:	The goal of the examination is to assess your understanding of and ability to apply knowledge of the theory content of the course weeks 1- 13 inclusive.
Product:	Written invigilated examination.
Format:	A comprehensive, two hour final examination, consisting of multiple choice questions.
Criteria:	You will be assessed on the following: <ul style="list-style-type: none"> • demonstration of knowledge of the theoretical content • ability to provide correct answers to questions on the theoretical content sourced from the course lectures, tutorials, laboratory classes and readings • ability to apply knowledge from lectures and readings to problems

7. What are the course activities?

7.1 Directed study hours

The directed study hours listed here are a portion of the workload for this course. A 12 unit course will have total of 150 learning hours which will include directed study hours (including online if required), self-directed learning and completion of assessable tasks. Directed study hours may vary by location. Student workload is calculated at 12.5 learning hours per one unit.

This course will be delivered via technology-enabled learning and teaching. All lectures/workshops will remain in this mode for Semester 2 2020. When government guidelines allow, and if practical, students that elected on-campus study via the class selection process will be advised via Blackboard if/when on-campus sessions can resume.

Location: Specific Campus(es) or online:	Directed study hours for location:
USC Sunshine Coast	1 x 2-hour lecture per week 1 x 1-hour tutorial/ fortnight (even weeks) 1 x 3 hr laboratory class/fortnight (odd weeks – starting week 1)

7.2 Course content

Module #	What key concepts/content will I learn?
1	Course Introduction Temperature Regulation
2a	Endocrine system I
2b	Endocrine system II
3	Blood Physiology & Anatomy
4	The Immune System
5a	Digestive system
5b	Digestive system
6a	Urinary system
6b	Urinary system
7	Fluid, electrolyte, acid-base balance
8	Sensory Physiology
9	Reproductive Physiology & Physiology of Pregnancy

Please note that the course content may be subject to variation. A table of the schedule of online lecture topics, laboratory and tutorial classes will be made available on Blackboard.

8. What resources do I need to undertake this course?

Please note that course information, including specific information of recommended readings, learning activities, resources, weekly readings, etc. are available on the course Blackboard site. Please log in as soon as possible.

8.1 Prescribed text(s)

Please note that you need to have regular access to the resource(s) listed below as they are required:

Author	Year	Title	Publisher
Sherwood, L	2015	Human Physiology: From Cells to Systems, 9 th Edn.	Brooks/Cole CENGAGE Learning: Belmont, CA USA.

8.2 Specific requirements

If applicable - you must wear a lab coat, enclosed shoes, and safety glasses during laboratory classes. The laboratory and tutorial class notes will be made available on Blackboard.

9. Risk management

If applicable - Risks in this course are associated with that of a PC1 laboratory. Risk assessments have been performed for each experimental. There is a moderate level of health and safety risk. You must wear a lab coat, enclosed shoes, and safety glasses (where directed) during laboratory classes. Safety data sheets (SDS) are available at relevant laboratory class.

It is your responsibility as a student to review course material, search online, discuss with lecturers and peers, and understand the health and safety risks associated with your specific course of study. It is also your responsibility to familiarise yourself with the University's general health and safety principles by reviewing the [online Health Safety and Wellbeing training module for students](#), and following the instructions of the University staff.

10. What administrative information is relevant to this course?

10.1 Assessment: Academic Integrity

Academic integrity is the ethical standard of university participation. It ensures that students graduate as a result of proving they are competent in their discipline. This is integral in maintaining the value of academic qualifications. Each industry has expectations and standards of the skills and knowledge within that discipline and these are reflected in assessment.

Academic integrity means that you do not engage in any activity that is considered to be academic fraud; including plagiarism, collusion or outsourcing any part of any assessment item to any other person. You are expected to be honest and ethical by completing all work yourself and indicating in your work which ideas and information were developed by you and which were taken from others. You cannot provide your assessment work to others. You are also expected to provide evidence of wide and critical reading, usually by using appropriate academic references.

In order to minimise incidents of academic fraud, this course may require that some of its assessment tasks, when submitted to Blackboard, are electronically checked through SafeAssign. This software allows for text comparisons to be made between your submitted assessment item and all other work that SafeAssign has access to.

10.2 Assessment: Additional requirements

Eligibility for Supplementary Assessment

Your eligibility for supplementary assessment in a course is dependent of the following conditions applying:

- a) The final mark is in the percentage range 47% to 49.4%
- b) The course is graded using the Standard Grading scale
- c) You have not failed an assessment task in the course due to academic misconduct

10.3 Assessment: Submission penalties

Late submission of assessment tasks will be penalised at the following maximum rate:

- 5% (of the assessment task's identified value) per day for the first two days from the date identified as the due date for the assessment task.
- 10% (of the assessment task's identified value) for the third day
- 20% (of the assessment task's identified value) for the fourth day and subsequent days up to and including seven days from the date identified as the due date for the assessment task.
- A result of zero is awarded for an assessment task submitted after seven days from the date identified as the due date for the assessment task.

Weekdays and weekends are included in the calculation of days late.

To request an extension, you must contact your Course Coordinator and supply the required documentation to negotiate an outcome.

10.4 Study help

In the first instance, you should contact your tutor, then the Course Coordinator. Additional assistance is provided to all students through Academic Skills Advisers. To book an appointment or find a drop-in session go to [Student Hub](#).

Contact Student Central for further assistance: +61 7 5430 2890 or studentcentral@usc.edu.au

10.5 Wellbeing Services

Student Wellbeing Support Staff are available to assist on a wide range of personal, academic, social and psychological matters to foster positive mental health and wellbeing for your success. Student Wellbeing is comprised of professionally qualified staff in counselling, health and disability Services.

Ability Advisers ensure equal access to all aspects of university life. If your studies are affected by a disability, mental health issue, learning disorder, injury or illness, or you are a primary carer for someone with a disability, [AccessAbility Services](#) can provide assistance, advocacy and reasonable academic adjustments.

To book an appointment with either service go to [Student Hub](#), email studentwellbeing@usc.edu.au or accessability@usc.edu.au or call 07 5430 1226

10.6 Links to relevant University policy and procedures

For more information on Academic Learning & Teaching categories including:

- Assessment: Courses and Coursework Programs
- Review of Assessment and Final Grades
- Supplementary Assessment
- Administration of Central Examinations
- Deferred Examinations
- Student Academic Misconduct
- Students with a Disability

Visit the USC website:

<http://www.usc.edu.au/explore/policies-and-procedures#academic-learning-and-teaching>

10.7 General Enquiries

In person:

- **USC Sunshine Coast** - Student Central, Ground Floor, Building C, 90 Sippy Downs Drive, Sippy Downs
- **USC Moreton Bay** – Service Centre, Ground Floor, Foundation Building, Gympie Road, Petrie
- **USC SouthBank** - Student Central, Building A4 (SW1), 52 Merivale Street, South Brisbane
- **USC Gympie** - Student Central, 71 Cartwright Road, Gympie
- **USC Fraser Coast** - Student Central, Student Central, Building A, 161 Old Maryborough Rd, Hervey Bay
- **USC Caboolture** - Student Central, Level 1 Building J, Cnr Manley and Tallon Street, Caboolture

Tel: +61 7 5430 2890

Email: studentcentral@usc.edu.au