



The University of Southern Queensland

Course specification

The current and official versions of the course specifications are available on the web at <http://www.usq.edu.au/coursespecification/current>.
Please consult the web for updates that may occur during the year.

Description: Advanced Neuroendocrine Physiology

Subject	Cat-nbr	Class	Term	Mode	Units	Campus
BIO	8101	90888	2, 2009	ONC	1.00	Toowoomba

Academic group:	FOSCI
Academic org:	FOS002
Student contribution band:	6
ASCED code:	010913

STAFFING

Examiner: Nicola Laws

Moderator: Guang Liu

RATIONALE

Through undertaking laboratory exercises, and literature surveys, the aim of this course is to provide an in depth practical and current understanding of the nervous and endocrine systems as the major control systems of the human.

SYNOPSIS

This is a laboratory-based course and provides research training in advanced technical and analytical techniques relevant to the discipline. Candidates will undertake laboratory exercises in a group environment, but will be required to prepare independent reports for assessment. Laboratories will include investigations into the following topics; Electrophysiology of nerve function; Sensory neurophysiology; Electroencephalogram (EEG); Neuromuscular junction physiology; Reproductive physiology and pharmacology; Hypothalamic-Pituitary physiology. On completion of all of the exercises students will have prepared report/s for examination in conjunction with a literature survey on a relevant field. Students will be required to participate in and make presentations during tutorial sessions.

OBJECTIVES

On completion of this course students will be able to:

1. demonstrate effective skills for searching databases and electronic resources (Laboratory Reports);
2. demonstrate skills and knowledge required to perform laboratory experiments safely with appropriate equipment, including computer software and hardware for data acquisition and analysis (Laboratory Reports);
3. demonstrate skills required for the preparation and submission of a detailed laboratory report (Laboratory Reports).

TOPICS

	Description	Weighting (%)
1.	Sensory perception / Neural processing	17.00
2.	Motor systems / Sciatic nerve function	17.00
3.	Central integrative systems / EEG and GSR	17.00
4.	Peripheral endocrine glands I / Adrenal gland function Peripheral endocrine glands II / Thyroid gland function	32.00
5.	Reproductive physiology / Uterine reproductive function	17.00

TEXT and MATERIALS required to be PURCHASED or ACCESSED

ALL textbooks and materials are available for purchase from USQ BOOKSHOP (unless otherwise stated). Orders may be placed via secure internet, free fax 1800642453, phone 07 46312742 (within Australia), or mail. Overseas students should fax +61 7 46311743, or phone +61 7 46312742. For costs, further details, and internet ordering, use the 'Textbook Search' facility at <http://bookshop.usq.edu.au> click 'Semester', then enter your 'Course Code' (no spaces).

Guyton, AC & Hall, JE 2005, *Textbook of Medical Physiology*, 11th edn, Elsevier, Philadelphia. (ISBN 0721602401)

REFERENCE MATERIALS

Reference materials are materials that, if accessed by students, may improve their knowledge and understanding of the material in the course and enrich their learning experience.

Berne, RM & Levy, MN (eds.) 2000, *Principles of Physiology*, 3rd edn, Mosby, St Louis.

Guyton, AC & Hall, JE 2000, *Textbook of Medical Physiology*, 10th edn, Saunders, Philadelphia.

Hardman, JG & Limbird, LE 2001, *Goodman & Gilman's: The Pharmacological Basis of Therapeutics*, 10th edn, McGraw Hill, New York.

Hille, B 2001, *Ion Channels of Excitable Membranes*, 3rd edn, Sinauer, Massachusetts.

Kandel, ER, Schwartz, JH & Jessell, TM (eds.) 2000, *Principles of Neural Science*, 4th edn, Appleton & Lange, Norwalk.

STUDENT WORKLOAD REQUIREMENTS

ACTIVITY	HOURS
Laboratory	18.00
Private Study	158.00
Tutorials	6.00

ASSESSMENT DETAILS

Description	Marks out of	Wtg (%)	Due date
LABORATORY REPORT I	50.00	50.00	24 Jul 2009 (see note 1)
LABORATORY REPORT II	50.00	50.00	24 Jul 2009 (see note 2)

NOTES

1. The examiner will advise the due date for the report.
2. The examiner will advise the due date for the report.

IMPORTANT ASSESSMENT INFORMATION

- 1 Attendance requirements:
It is the students' responsibility to attend and participate appropriately in all activities (such as laboratories and tutorials) scheduled for them, and to study all material provided to them or required to be accessed by them to maximise their chance of meeting the objectives of the course and to be informed of course-related activities and administration. To maximize their chances of satisfying the objectives of the practical component of the course, students should attend and actively participate in the tutorial sessions in the course.
- 2 Requirements for students to complete each assessment item satisfactorily:
To complete each of the assessment items satisfactorily, students must obtain at least 50% of the marks available for each assessment item.
- 3 Penalties for late submission of required work:
If students submit assignments after the due date without (prior) approval of the examiner then a penalty of 5% of the total marks gained by the student for the assignment may apply for each working day late up to ten working days at which time a mark of zero may be recorded. No assignments will be accepted after model answers have been posted.
- 4 Requirements for student to be awarded a passing grade in the course:
To be assured of receiving a passing grade a student must achieve at least 50% of the total weighted marks available for the course.
- 5 Method used to combine assessment results to attain final grade:
The final grades for students will be assigned on the basis of the weighted aggregate of the marks obtained for each of the summative assessment items in the course.
- 6 Examination information:
There is no examination in this course.
- 7 Examination period when Deferred/Supplementary examinations will be held:
As there are no examinations in this course, there will be no deferred or supplementary examinations.
- 8 University Regulations:
Students should read USQ Regulations 5.1 Definitions, 5.6. Assessment, and 5.10 Academic Misconduct for further information and to avoid actions which might contravene University Regulations. These regulations can be found at the URL <http://www.usq.edu.au/corporateservices/calendar/part5.htm> or in the current USQ Handbook.

ASSESSMENT NOTES

- 1 Students who, for medical, family/personal, or employment-related reasons, are unable to complete an assignment or to sit for an examination at the scheduled time may apply to defer an assessment in a course. Such a request must be accompanied by appropriate supporting documentation. One of the following temporary grades may be awarded IDS (Incomplete-Deferred Examination); IDM (Incomplete Deferred Make-up); IDB (Incomplete - Both Deferred Examination and Deferred Make-up).
- 2 The due date for an assignment is the date by which a student must despatch the assignment to the USQ. The onus is on the student to provide proof of the despatch date, if requested by the Examiner. Students must retain a copy of each item submitted for assessment. If requested by the Examiner, students will be required to provide a copy of assignments submitted for assessment purposes. Such copies should be despatched to USQ within 24 hours of receipt of a request being made. The examiner of a course may grant an extension of the due date of an assignment in extenuating circumstances.