JAMES COOK UNIVERSITY

School of Pharmacy and Molecular Sciences
Faculty of Medicine, Health & Molecular Sciences
Department of Chemistry

COURSE TITLE: CH1010:03 Biological Chemistry – BLOCK MODE

SUBJECT CO-ORDINATOR: Dr Mike Liddell
AND TEACHING STAFF Tel: 4042 1275
michael.liddell@jcu.edu.au
CONSULTATION TIMES: Room E1.102B 6pm

LECTURE TIMES:	Each day	9:00	Room E1.022
	Each day	11:00	Room E1.022
	Each day	12:00	Room E1.022
TUTORIALS:	Each day	10:00	Room E1.022
WORKSHOP:	Each day	16:00	Room E1.022
PRACTICALS:	Each day	13:00	Room E1.113

The course runs from 4th to 15th December, there are 11 days scheduled for the course Monday – Friday plus possibly Saturday 9th December. The final examination will be on Sunday 17th at a time to be agreed on (probably 10am – 12).

PRACTICALS: 3 hours laboratory per day over the course.
Students should obtain copies of the CH1010 Practical and Report Books from the Medicine, Health, Molecular Sciences Faculty Office (E1). The CH1010 Laboratory manual and report book are available as read-only Word files on the LearnJCU CH1010 WEB site. Submitted reports must be in the printed Report Book. A refundable breakage deposit of $20 must be paid at the start of the course. Refunds of the breakage deposits will occur after the last week of the course and for 4 weeks past this date. Supervisor: Dr M. Liddell

PRACTICAL REPORTS: These must be handed in either at the end of the practical session or as directed in the Laboratory Manual. All practical reports will be marked and returned to students at the start of the next practical session. Where a student is absent from a practical and has a valid medical certificate the marks will be entered with due proportionality.

MEDICAL CERTIFICATES: These must be submitted to your practical demonstrator within one week of returning to classes.

ATTENDANCE: Students must participate and complete the assessment in all 9 practical exercises unless a valid medical certificate is presented as soon after the practical session as is possible. Attendance at >80% of the practicals is required to pass the subject. Attendance at tutorials is optional but students will find them helpful in preparing for final examinations. NB: students must turn off mobile phones before entering lectures, tutorials and practicals.

EXAMINATIONS: Supplementary examinations are offered in this subject to those students who have not passed the subject after the final exam but have performed reasonably during the course. Deferred examinations may be awarded on presentation of a medical certificate within one week of the examination date. A request for a deferred examination will be refused if the student has a poor record of participation (lack of attendance at lectures, tutorials, practicals, or failure to submit assessable material).

LEARNING OBJECTIVES: To provide an understanding of the basic principles of natural product chemistry and biochemistry and their importance in scientific disciplines such as environmental, biological and earth sciences.

REFERENCE MATERIALS:
Recommended text :
1) **Bettelheim, Brown, March "*General, Organic & Biochemistry 7e*" (Thomson, 2004).**
Library: 1 copy in reserve
The LearnJCU CH1010 Web site (http://learnjcu.jcu.edu.au/CH1010) will be used extensively for additional course materials including the assessed Modules. In addition students may be referred to particular material which will be placed in the Reserve Collection in the JCU Library.

PLAGIARISM: Plagiarism s the act of taking and using another's work as one's own. It includes doing the following without the due acknowledgment or clear indication of origin- directly copying any part of any else's work, using very close paraphrasing or summarising of another's work, using or developing an idea or thesis derived from another's work, using the experimental results that have been obtained by someone else. An act of plagiarism is a form of academic misconduct, along with activities like- the fabrication of data, claiming results where none has been obtained, the falsification of data, including changing records or preferentially rejecting results, for example where they do not support a research hypothesis, misleading ascription of authorship. Acts of plagiarism will be penalised by the award of no marks for a particular assignment or practical.

WORKLOAD: It is expected that students should on average spend 60 hours per week on this subject. This is inclusive of class contact time.

DISABILITIES : Students with a disability and who require special arrangements or consideration should contact the Disability Resources Officer in the Equal Opportunity Unit which is housed on the ground floor of the JCU Library.
They can also be contacted by phone – ext 5152.

PREPARATION: Normally, at least a Sound Achievement in Chemistry and Mathematics B at Senior secondary level is assumed or the appropriate bridging courses.

COURSE CONTENT: Lectures (29) assisted by tutorials(10) and WEB based multimedia mode presentation of aspects of descriptive natural product and bioinorganic chemistry and biochemistry. The subject description in the Calendar gives details of the actual content covered.

ASSESSMENT:

Theory	- 58%:	A 2-hour examination on December 17th.
Practical	- 20%:	Continually assessed during the course
Test	- 22%:	Continually assessed during the course

You must achieve an average of over 40% across the invigilated components of the subject (ie the Theory examination) to pass the subject.

GRADUATE ATTRIBUTES

Graduate attributes are divided into generic skills and graduate qualities. As graduate qualities are not easily amenable to assessment on a subject-by-subject basis only the generic skills are mapped in this document. In the table below the extent to which each of the generic skills are covered in this subject is listed.

GENERIC SKILLS	**Rating 0-3**
Literacy and Numeracy	
Ability to critically read demanding texts	2
Ability to speak and write clearly	1
Ability to generate, interpret numerical information	2
Information Literacy	
Ability to access information	1
Ability to evaluate information	2
Understanding of legal, ethical social issues relating to information	0
Ability to select, organise and cogently communicate information	2
Critical thinking and problem solving	
Ability to think critically, evaluate claims, deploy evidence	3
Ability to adapt knowledge to new situations	2
Ability to deploy information to practical ends	2
Ability to define and solve problems in at least one discipline area	2
Self reliance and interpersonal understanding	
Ability to communicate effectively with a range of audiences	1
Ability to lead, manage and contribute to teams	
Ability to work with people of differing age, gender etc	1
Ability to work individually and independently	2
Using tools and technologies	
Ability to select and use appropriate tools and technologies	2
Ability to use online technologies effectively and ethically	2
Learning achievement	
Acquisition of skills.. from one discipline area	3
Ability to reflect on and evaluate learning	1
Ability to manage future career and personal development	1

Score: 0 = not covered significantly, 1 = covered peripherally, 2 = covered significantly, but not a primary focus, 3= a major focus of the subject.