Course Outline

Code: TPP109
Title: Biology

Teaching Session: Session 8
Year: 2019
Course Coordinator: Lyris Snowden  Tel: 5456 5003  Email: LSnowde1@usc.edu.au
Course Moderator: Nicole McMullen

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
Biology is the study of life. It is foundational to understanding both ourselves and the world around us. This course enables you to acquire basic knowledge in the principles of biology so that you may better undertake study in first year university biology related courses. The course is specifically designed for those students who have not completed high school biology, or who have done so and wish to refresh their knowledge and understanding of the discipline.

1.2 Field trips, WIL placements or activities required by professional accreditation

<table>
<thead>
<tr>
<th>Activity</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nil</td>
<td>Nil</td>
</tr>
</tbody>
</table>

2. What level is this course?
100 level Introductory - Discipline knowledge and skills at foundational level, broad application of knowledge and skills in familiar contexts and with support. Normally associated with the first full-time year of an undergraduate program

3. What is the unit value of this course?
12 units
Please be aware units from this course cannot be counted for credit towards an award-bearing program.

4. How does this course contribute to my learning?

<table>
<thead>
<tr>
<th>Specific Learning Outcomes</th>
<th>Assessment tasks</th>
<th>Graduate Qualities or Professional Standards mapping</th>
</tr>
</thead>
<tbody>
<tr>
<td>On successful completion of this course, you should be able to:</td>
<td>You will be assessed on the learning outcomes in task/s:</td>
<td>Completing these tasks successfully will contribute to you becoming:</td>
</tr>
<tr>
<td>Outline the fundamental ideas in evolution theory and identify key themes in biology</td>
<td>1a, 3</td>
<td>Knowledgeable.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Knowledgeable.</td>
</tr>
<tr>
<td>-----------------------------------------------------------------</td>
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<td>------------------------</td>
</tr>
<tr>
<td>Characterise the key features of the domains and kingdoms</td>
<td>1a, 3</td>
<td></td>
</tr>
<tr>
<td>Explain how the chemical structure of water results in its four emergent properties</td>
<td>1b, 3</td>
<td></td>
</tr>
<tr>
<td>Identify macromolecules, describe their key characteristics and provide examples.</td>
<td>1b, 3</td>
<td></td>
</tr>
<tr>
<td>Describe the structure of cells, naming the organelles and recalling their function</td>
<td>1b, 3</td>
<td></td>
</tr>
<tr>
<td>Describe cell membrane structure and the types of transport across the cell membrane</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Recognise the role of prokaryotes in health, disease and ecosystems</td>
<td>3</td>
<td>Knowledgeable. Empowered.</td>
</tr>
<tr>
<td>Identify the structures of the human digestive system and describe their function</td>
<td>3</td>
<td>Knowledgeable. Empowered.</td>
</tr>
<tr>
<td>Define basic ecological concepts and outline nutrient cycling in ecosystems</td>
<td>3</td>
<td>Knowledgeable. Empowered.</td>
</tr>
<tr>
<td>Source and evaluate credible information and effectively communicate biological information.</td>
<td>2</td>
<td>Creative and critical thinkers. Knowledgeable.</td>
</tr>
</tbody>
</table>

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**

Students must be enrolled in TP000 or XE001

5.2 **Pre-requisites**

Nil

5.3 **Co-requisites**

NIL

5.4 **Anti-requisites**

Nil

5.5 **Specific assumed prior knowledge and skills (where applicable)**

Not applicable

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**

In week 3 the first two worksheets in your TPP109 Biology Course Reader will be peer reviewed in your tutorial. This peer review and the feedback from your tutor will provide you with the opportunity to reflect upon your learning and study skills. Support with your learning is available in the weekly consultation sessions as communicated on Blackboard or with your tutor.

6.3 **Assessment tasks**
<table>
<thead>
<tr>
<th>Task No.</th>
<th>Assessment Tasks</th>
<th>Individual or Group</th>
<th>Weighting %</th>
<th>What is the duration/length?</th>
<th>When should I submit?</th>
<th>Where should I submit it?</th>
</tr>
</thead>
<tbody>
<tr>
<td>1a</td>
<td>Examination</td>
<td>Individual</td>
<td>10</td>
<td>45 minutes</td>
<td>Week 2 afternoon tutorial</td>
<td>In Class</td>
</tr>
<tr>
<td>1b</td>
<td>Examination</td>
<td>Individual</td>
<td>30</td>
<td>1 hour</td>
<td>Week 4 afternoon tutorial</td>
<td>In Class</td>
</tr>
<tr>
<td>2</td>
<td>Written Piece</td>
<td>Individual</td>
<td>20</td>
<td>500 words</td>
<td>5.00pm Friday week 5</td>
<td>Online Assignment Submission with Plagiarism check</td>
</tr>
<tr>
<td>3</td>
<td>Examination</td>
<td>Individual</td>
<td>40</td>
<td>1 hour 45 minutes</td>
<td>Week 6 afternoon tutorial</td>
<td>In Class</td>
</tr>
</tbody>
</table>

Assessment Task 1a: Biology themes, evolution and classification

**Goal:** To recall and demonstrate your knowledge on themes in biology, evolution, classification, domains and kingdoms.

**Product:** Examination

**Format:** This test is composed of multiple choice, short answer, true or false and matching questions and is to be undertaken in your week 2 afternoon tutorial time. It has a weighting of 10% and duration of 45 minutes.

**Criteria:** Themes in biology
Evolution
Characteristics of domains and kingdoms

Assessment Task 1b: Water, macromolecules and cells test

**Goal:** To recall and demonstrate your knowledge of water, macromolecules and cell structure and organelles.

**Product:** Examination

**Format:** This test is composed of multiple choice, short answer, true or false, matching questions and labelling a diagram and is to be undertaken in your week 4 afternoon tutorial time. It has a weighting of 30% and duration of 1 hour.

**Criteria:** Relate the chemical structure of water to its emergent properties
Identify macromolecules, describe their characteristics and provide examples
Recognise cell structures and organelles and recall their function/s

Assessment Task 2: Summary of a scientific journal article

**Goal:** To develop your skills in reading and understanding a scientific journal article and summarising the key information.

**Product:** Written Piece

**Format:** Summarise the key information of a provided scientific journal article in 500 words (+/- 10%)

**Criteria:** Marks are awarded for interpretation of scientific information; Communication of biological information; and academic referencing.

Assessment Task 3: Cell membrane and membrane transport, prokaryotes, digestive system, ecological concepts and nutrient cycling test.
Goal: To recall and integrate your knowledge of the topics presented throughout the semester.

Product: Examination

Format: This test is composed of multiple choice, short answers, true or false and matching questions and labelling a diagram and is to be undertaken in your week 6 afternoon tutorial time. It has a weighting of 40% and duration of 1 hour 45 minutes.

Criteria: Describe cell membrane structure and differentiate between types of membrane transport
Prokaryotes
The human digestive system
Basic ecological concepts
Energy flow and nutrient cycling in ecosystems
Other topics include: evolution, water, macromolecules, cell structures and organelles

7. 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.

<table>
<thead>
<tr>
<th>Location</th>
<th>Directed study hours for location:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sippy Downs</td>
<td>Lecture: 2 x one-hour lectures per week over 6 weeks</td>
</tr>
<tr>
<td>USC Fraser Coast</td>
<td>Tutorial: 2 x two-hour tutorials per week over 6 weeks</td>
</tr>
</tbody>
</table>

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:

<table>
<thead>
<tr>
<th>Author</th>
<th>Year</th>
<th>Title</th>
<th>Publisher</th>
</tr>
</thead>
<tbody>
<tr>
<td>University of the Sunshine</td>
<td>2019</td>
<td>TPP109 Biology Workbook</td>
<td>University of the Sunshine Coast</td>
</tr>
<tr>
<td>Coast</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

8.2 Specific requirements

No specific requirements

9. Risk management

Health and safety risks for this course have been assessed as low.

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 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

10.6 General Enquiries

In person:
• **USC Sunshine Coast** - Student Central, Ground Floor, Building C, 90 Sippy Downs Drive, Sippy Downs
• **USC South Bank** - 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