313391 Human Structure and Function 100
Semester Two, 2012

| **Unit study package number:** | 313391 |
| **Mode of study:** | External |
| **Tuition pattern summary:** | 1 x 2 hr workshop using online resources (weekly)  
1 x 2 hr structured learning using online resources (weekly) |
| **Credit value:** | 25 |
| **Pre-requisite units:** | none |
| **Co-requisite units:** | none |
| **Anti-requisite units:** | none |
| **Additional Requirements:** | none |
| **Result type:** | Grade and mark |
| **Approved incidental fees:** | All fee information can be obtained through the Fees Centre. Visit fees.curtin.edu.au for details. |

**Unit Coordinator:**
- Name: Dr Danielle Dye
- Phone: 08 9266 9697
- Email: HSF100@curtin.edu.au
- Building: Room: 305:106
- Consultation times: see Blackboard for details

**Tutor:**
- Name: Melissa Parkinson
- Email: M.Parkinson@curtin.edu.au

**Administrative contact:**
- Name: Rayne Stradwick
- Phone: 08 9266 3172
- Email: HSF100@curtin.edu.au
- Building: Room: 400:205

**Learning Management System:** FLECS - Blackboard (oasis.curtin.edu.au) and Connect which is an interactive learning management system. Please refer to the document titled Connect on Blackboard for instruction on how to access this system.
Syllabus
Anatomical organization of the body and the relationships between body systems and cells; Human requirements for metabolism and life; The structure and function of the body from cells to the whole organism; Basic control and interactions of the circulatory, respiratory, digestive and excretory systems for homeostasis; Primary defence against microorganisms; Mechanisms for growth, repair and reproduction.

Introduction
Welcome to Human Structure and Function 100. In this unit you will answer questions about how the human body is maintained, and explore the link between macroscopic and microscopic structures that achieve homeostasis. You will be well supported by unit materials that will prepare you for the activities you will complete in the online ‘workshops’ each week. Assessment tasks with feedback will help you to achieve the unit outcomes. We hope this unit will inspire students to think about how the body works in an integrated and functional way, and provide a solid framework on which to build in other units in your particular course.

Unit Learning Outcomes
On successful completion of this unit students can:

1. Describe the relationship between structure and function of living cells and their inputs and outputs.
2. Explain how the circulatory, respiratory, digestive and excretory systems contribute to the needs of cells in the human body.
3. Describe how body systems are controlled to maintain life.
4. Explain how cells multiply, differentiate and die, and how these processes apply to contemporary issues of life and death.
5. Solve problems by working in interprofessional student teams to gather, record and interpret data about the human body.

Curtin’s Graduate Attributes

Apply discipline knowledge
Thinking skills (use analytical skills to solve problems)
Information skills (confidence to investigate new ideas)

Communication skills
Technology skills
Learning how to learn (apply principles learnt to new situations) (confidence to tackle unfamiliar problems)

International perspective (value the perspectives of others)
Cultural understanding (value the perspectives of others)
Professional skills (work independently and as a team) (plan own work)

Find out more about Curtin’s Graduate attributes at the Office of T&L website: otl.curtin.edu.au
Learning Activities

Human Structure and Function 100 introduces you to the way in which the human body is put together, and the inter-relationship between structure and function. For some of you this will be your first exposure to human biology as a discipline. Others will have studied human biology or biology in some other context. As with anything new, terminology and frames of reference are a useful place to start, and a lot of the unit will involve learning a new language.

Each week you will have a compendium of materials, including activities, iLectures, readings, websites to visit, quizzes, animations to watch and so on, that will need to be completed that week. These tasks will be done in a semi-structured online environment. A calendar of weekly topics is available at the end of this unit outline and detailed information about each week in the form of a compendium will be posted on Blackboard, so you will always know what you should be doing and when it needs to be completed. You will gain most from this unit if you are organised and well prepared for each week’s activities.

Learning Resources

Essential Text


This book will be sold by the Curtin University Bookshop, bundled with additional on-line resources Connect with LearnSmart. To get the additional resource bundle at no extra cost, ask for the specific ISBN 9780070998858.

Online Resources

Please see the weekly compendia available on FLECS Blackboard. In addition to Blackboard you will be required to access the McGraw Hill website titled Connect which relates to the VanPutte textbook. For instructions on gaining access to this resource please read the “How to register with Connect” on Blackboard.
## Assessment

### Assessment Schedule

<table>
<thead>
<tr>
<th>Task</th>
<th>Value (%)</th>
<th>Date due</th>
<th>Unit Learning Outcome(s) assessed</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Computer-mediated short answer Test one (including content from week 1-3)</td>
<td>15</td>
<td>Week 5 (week beginning 13th August)</td>
<td>1, 2, 3, 4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Final date for completion: 17/8/12</td>
<td></td>
</tr>
<tr>
<td>2. Computer-mediated short answer Test two (including content from week 1-6 &amp; weeks 8-9: week 7 is the tuition free week)</td>
<td>20</td>
<td>Week 12 (week beginning 3rd October)</td>
<td>1, 2, 3, 4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Final date for completion: 5/10/12</td>
<td></td>
</tr>
<tr>
<td>3. Group problem-solving assessment task (including content from weeks 1-6 and week 8; week 7 is a tuition free week)</td>
<td>20</td>
<td>Week 10 (Due 21st September by the close of business Western Standard time)</td>
<td>1, 2, 3, 4, 5</td>
</tr>
<tr>
<td>4. Final written examination</td>
<td>45</td>
<td>Exam week</td>
<td>1, 2, 3, 4</td>
</tr>
</tbody>
</table>

### Detailed information on assessment tasks

**IMPORTANT:** Please read all the documents in the “Assessment” folder on Blackboard explaining how you complete your assessments as external students

1. The **Computer-mediated Test 1** tests your understanding and recall of material from the first 3 weeks compendia. This allows you to keep track of your progress and assess your study techniques.

2. The **Computer-mediated Test 2** tests your understanding and recall of material from the weeks 1-6 and weeks 8-9 compendia which allows you to keep track of your progress and assess your study techniques.

3. The **Group problem-solving assessment task** will be investigated by you with marks allocated to interaction with other external students via the Discussion Board. You will be allocated into groups for this part of the assessment. You will be given a problem to solve and your critical thinking and collaborative skills will be tested as you discuss the issue at hand. Once you have discussed the problem with your allocated group members you will need to individually write up and submit your final report, including some evidence of your group discussions. Further details about this assessment will be provided via Blackboard.

4. The **Final Written Examination** will be a paper-based examination run in the official examination period. Your examination paper will contain a mixture of question styles, and you will be graded on your ability to problem-solve, predict form and function, and integrate information. Examples of questions will be provided for you on Blackboard later in the semester so that you are familiar with the style of the paper before you do the final examination.
Fair assessment through moderation

Moderation describes a quality assurance process to ensure that assessments are appropriate to the learning outcomes, and that student work is consistently evaluated by assessors. Minimum standards for the moderation of assessment are described in the Assessment Manual, available from policies.curtin.edu.au/policies/teachingandlearning.cfm

Assignment extensions

Due dates will be strictly adhered to. Extensions will be granted only in cases of urgent need, and only where formally documented requests are made to the Unit Co-ordinator in advance of the assessment being due.

The student will normally be expected to lodge an assignment request form and supporting documentation to hsf100@curtin.edu.au 2 days before the date or due date of the assessment task. In exceptional circumstances, a request may be accepted up to 5 working days after the date or due date of the assessment task. Such requests will only be accepted where the student is able to provide the Unit Coordinator with a satisfactory explanation of why he or she was not able to submit the application for an assessment extension by the date or due date of the assessment task.

The relevant form can be downloaded from the Assessments link on FLECS – Blackboard. Please fill in the form and send it to hsf100@curtin.edu.au, together with a scanned copy of your medical certificate or counsellor’s letter. Please retain the original copy of all supporting documentation as you may be required to produce them at a later date.

Documents may be scanned using scanners located in the Abacus computing laboratories on campus and on every level of the Curtin library.

The unit coordinator will assess your application and inform you of the outcome via email.

Pass requirements

Students are expected to submit all pieces of assessment. It is essential that students attempt the final exam in order to pass the unit. Students must achieve an overall grade of 50% or greater to pass the unit.

Where requested to do so in the Assignment submission requirements, students will be required to submit the assignment to Turnitin. Where an incidence of plagiarism is detected a student will be given 2 weeks to re submit or will fail that assessment.

Referencing style

Students should use the APA (American Psychological Association) referencing style when preparing assignments. More information can be found on this style from the Library web site: library.curtin.edu.au/research_and_information_skills/referencing
Plagiarism

Plagiarism occurs when work or property of another person is presented as one's own, without appropriate acknowledgement or referencing. Plagiarism also includes submitting previously assessed or published work for assessment or publication elsewhere, without permission or acknowledgement (self-plagiarism). Plagiarism is a serious offence. For more information refer to academicintegrity.curtin.edu.au

Plagiarism Monitoring

Work submitted may be subjected to a plagiarism detection process, which may include the use of systems such as 'Turnitin'. For further information, see academicintegrity.curtin.edu.au/students/turnitin.cfm

Additional information

Enrolment:

It is your responsibility to ensure that your enrolment is correct - you can check your enrolment through the eStudent option on OASIS, where you can also print an Enrolment Advice.

Supplementary/Deferred Exams:

For information on Supplementary/Deferred Exams and Assessments please click on the following link: Assessment and Student Progression

Supplementary and deferred examinations granted by the Faculty of Health Sciences will be held in the week beginning Monday 19th November. Notification to students will be made after the Board of Examiners meeting, via the Official Communications Channel (OCC) in OASIS. It is the student’s responsibility to check their OASIS account for official Curtin correspondence on a weekly basis. If your results show that you have been awarded a supplementary or deferred exam you should immediately check your OASIS email for details.

Student Rights and Responsibilities

It is the responsibility of every student to be aware of all relevant legislation and policies and procedures relating to his or her rights and responsibilities as a student. These include:

- the Student Charter
- the University’s Guiding Ethical Principles
- the University’s policy and statements on plagiarism and academic integrity
- copyright principles and responsibilities
- the University’s policies on appropriate use of software and computer facilities

Information on all these things is available through the University’s “Student Rights and Responsibilities” website at: students.curtin.edu.au/rights.
Unit feedback and future changes

We welcome feedback as one way to keep improving this unit. Students are encouraged to give unit feedback through eVALUate, Curtin’s online student feedback system (see http://evaluate.curtin.edu.au/info/index.cfm). Feedback from students who have completed Human Structure and Function 100 in 2011 and other similar Human Biology units has been used in the ongoing development of this new unit.

http://evaluate.curtin.edu.au/info/dates.cfm

UniPass for HSF100

This unit is supported by UniPASS (Peer Assisted Study Sessions). UniPASS is a peer-facilitated, cooperative academic assistance program that targets units that students often find challenging. If you are within the Perth Metropolitan Area, UniPASS will help to you to succeed in this unit by providing you with scheduled study time where you can work collaboratively in small groups with the help of a peer who has excelled in the subject and has been trained to facilitate peer learning.

Peer learning is a powerful learning technique and research has shown that students who study together achieve better results. Students who attend five sessions or more per semester usually achieve higher average marks than students who do not participate and their failure rate is lower. In 2011, UniPASS attendees averaged 13% higher than non-attendees. UniPASS does not replace lectures and tutorials; research has shown that to be successful students should participate in all learning experiences, tutorials and UniPASS.

UniPASS commences in week two of Semester 2, runs for 11 weeks and is open to all students enrolled in this unit. Your tutor will provide information about UniPASS sessions in week one and you can find out more and check out the timetable at the www.learningcentre.curtin.edu.au or on Blackboard from week one onwards. To enrol just check ou the UniPASS timetable online or on Blackboard and turn up. If you have any questions, please email the UniPASS program coordinator at unipass@curtin.edu.au.
<table>
<thead>
<tr>
<th>Week</th>
<th>Begin Date</th>
<th>Structured On-line Learning</th>
<th>Workshop</th>
<th>Assessment Due</th>
</tr>
</thead>
<tbody>
<tr>
<td>StartUp</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.</td>
<td>9 July</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td>16 July</td>
<td>See compendium 1</td>
<td>“What are life and death? The organization and characteristics of the Human organism”</td>
<td>Ongoing formative</td>
</tr>
<tr>
<td>3.</td>
<td>23 July</td>
<td>See compendium 2</td>
<td>“How do cells do what they do?” Cell structure and the arrangement of cells into tissues</td>
<td>Ongoing formative</td>
</tr>
<tr>
<td>4.</td>
<td>30 July</td>
<td>See compendium 3</td>
<td>“Are you what you eat?” Introduction to the digestive system and nutrition</td>
<td>Ongoing formative</td>
</tr>
<tr>
<td>5.</td>
<td>6 Aug</td>
<td>See compendium 4</td>
<td>“Why do we breathe?” Introduction to the respiratory system</td>
<td>Ongoing formative</td>
</tr>
<tr>
<td>6.</td>
<td>13 Aug</td>
<td>See compendium 5</td>
<td>“How do we fuel our body?” Energy systems of the body and membrane transport</td>
<td>*Computer mediated Test one 15%</td>
</tr>
<tr>
<td>7.</td>
<td>20 Aug</td>
<td>See compendium 6</td>
<td>“How do things get around the body?” Introduction to the circulatory system</td>
<td>Ongoing formative</td>
</tr>
<tr>
<td>8.</td>
<td>27 Aug</td>
<td></td>
<td></td>
<td>TUITION FREE WEEK</td>
</tr>
<tr>
<td>9.</td>
<td>3 Sept</td>
<td>See compendium 7</td>
<td>“How do we protect ourselves?” The role of the lymphatic and immune system</td>
<td>Ongoing formative</td>
</tr>
<tr>
<td>10.</td>
<td>10 Sept</td>
<td>See compendium 8</td>
<td>“How do cells grow, specialise and die?” DNA, protein synthesis and cell division</td>
<td>Ongoing formative</td>
</tr>
<tr>
<td>11.</td>
<td>17 Sept</td>
<td></td>
<td></td>
<td>*Group problem solving task 20% - No compendium</td>
</tr>
<tr>
<td>12.</td>
<td>24 Sept</td>
<td>See compendium 9</td>
<td>“How do you get rid of toxic wastes?” Introduction to the renal system</td>
<td>Ongoing formative</td>
</tr>
<tr>
<td>13.</td>
<td>1 Oct</td>
<td>See compendium 10</td>
<td>“How do we control our selves?” Introduction to the nervous system</td>
<td>*Computer mediated Test two 20%</td>
</tr>
<tr>
<td>14.</td>
<td>8 Oct</td>
<td>See compendium 11</td>
<td>“How does it all work?” The harmonious interplay between the nervous system structures</td>
<td>Ongoing formative</td>
</tr>
<tr>
<td>15.</td>
<td>15 Oct</td>
<td></td>
<td></td>
<td>Study Week</td>
</tr>
<tr>
<td>16.</td>
<td>22 Oct</td>
<td></td>
<td></td>
<td>Exams Week 1</td>
</tr>
<tr>
<td>17.</td>
<td>29 Oct</td>
<td></td>
<td></td>
<td>Exam Week 2</td>
</tr>
</tbody>
</table>