Unit Outline
301299 Pathophysiology 331
Semester 2, 2012

Unit study package number: 301299
Mode of study: Internal
Tuition pattern summary: Lecture: 1 x 2 Hours Weekly
Tutorial: 1 x 3 Hours Weekly
This unit does not have a fieldwork component.

Credit Value: 25.0
Pre-requisite units: 8472 (v.0) Physiology 231 or any previous version
AND
8846 (v.0) Physiology 232 or any previous version

Co-requisite units: Nil
Anti-requisite units: Nil
Result type: Grade/Mark
Approved incidental fees: Information about approved incidental fees can be obtained from our website. Visit fees.curtin.edu.au/incidental_fees.cfm for details.

Unit coordinator:
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Building: 404
Room: 206
Consultation times: By appointment

Teaching Staff:

Administrative contact:
Name: Janette McLeod
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Learning Management System: Blackboard (lms.curtin.edu.au)
Acknowledgement of Country

We respectfully acknowledge the Indigenous Elders, custodians, their descendants and kin of this land past and present.

Syllabus

Principles of disease processes, causes, medical procedures, cell injury, inflammation and tissue repair, abnormal growth patterns. The immune system in disease, cardiovascular, pulmonary, & digestive system diseases; disorders, diseases of the endocrine system; systems for coding of diseases; review centres for disease control in United States of America.

Introduction

Pathophysiology is concerned with studying the underlying alterations to normal body function (physiology) that result from disease or injury. It seeks to understand the mechanisms of disease and how and why these changes in body structure and function lead to signs and symptoms (manifestations) of disease.

Learning Outcomes

On successful completion of this unit students can:

1. Infer the main structural and functional changes produced by disease processes in selected body systems and contrast these with normal structure and function
2. Identify cause and effect relationships in disease processes
3. Apply principles of disease processes in problem solving/case history scenarios
4. Utilise appropriate medical terminology in describing disease processes
5. Synthesise and critically evaluate scientific information on disease processes

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)
| International perspective (value the perspectives of others) | Cultural understanding (value the perspectives of others) | Professional Skills (work independently and as a team) |

Find out more about Curtin’s Graduate attributes at the Office of Teaching & Learning website: otl.curtin.edu.au

Learning Activities

Monday - 2 hour Lecture
JT- Jassie Tunstill; GA - Ghanim Almahbobi

Wednesday - 3 hour Tutorial Sessions will include:

individual presentations on research topics, analysis of an exemplar literature review, case studies including use of iPads/computers with internet access to research case study information, viewing pathological specimens, viewing pathology DVDs, revision mini tests
Learning Resources

Recommended Texts

You do not have to purchase the following textbooks but you may like to refer to them.


Other Resources

You will be expected to research a number of topics related to course materials using both the web and professional journals held in the Curtin library.

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>Literature Review</td>
<td>25 percent</td>
<td>Week: Week 6 Day: Friday Time: 17:00</td>
<td>1,4,5</td>
</tr>
<tr>
<td>Mid Semester test</td>
<td>25 percent</td>
<td>Week: Week 8 Day: Wednesday</td>
<td>1,2,3</td>
</tr>
<tr>
<td>Case Study</td>
<td>10 percent</td>
<td>Week: Week 11 Day: Friday Time: 17:00</td>
<td>1,2,4</td>
</tr>
<tr>
<td>Examination</td>
<td>40 percent</td>
<td>Week: Semester Examination Period</td>
<td>1,2,3,4</td>
</tr>
</tbody>
</table>

Detailed information on assessment tasks

1. This will comprise a **2,000-word** literature review of a topic related to a specific disease/disorder or group of diseases. **Emphasis** will be on the pathology and it's effects on function, rather than on treatment.

   Resource materials MUST comprise mainly recent journal articles, and only a very minor contribution from web-based material will be accepted; locating journal articles via web search, is of course the most efficient way to go about it, but you must then lay hands on the articles themselves - preferably in full. (Abstracts are of limited value, and can be misleading).

   Marks will be based not only on content - depth, breadth, currency and quality of resources, level of understanding of the material etc, but also on presentation (certainly not just visual appearance). The final product must be well laid out, logically sequenced, have good continuity, and should present a well-rounded summary of current information relating to the topic.

   Please note that a literature review DOES NOT consist of a series of quotes taken directly from references, but a condensation, paraphrasing and synthesis of information from various sources. Direct quotations are to be avoided, unless there is an extremely good reason for using them. You are advised to select a journal relating to your topic of interest and examine a review article to gain a clearer understanding of what is expected.

2. A 2 hr test consisting of a series of short answer questions based on content from Weeks 1-6

3. To be completed at home. Practice case studies will be given during the tutorial sessions

4. The final exam will take the form of case histories, with a series of questions relating to the disease processes involved. Marks will primarily be awarded for the ability to select and integrate information appropriate to the case study. Problem solving ability is of paramount importance, rather than simple information regurgitation.
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 evaluated consistently by assessors. Minimum standards for the moderation of assessment are described in the Assessment Manual, available from policies.curtin.edu.au/policies/teachingandlearning.cfm

Late penalties

Late Assessment Policy

This ensures that the requirements for submission of assignments and other work to be assessed are fair, transparent, equitable, and that penalties are consistently applied.

1. All assessments which students are required to submit will have a due date and time specified on the Unit Outline.
2. Accepting late submission of assignments or other work will be determined by the unit coordinator or Head of School and will be specified on the Unit Outline.
3. If late submission of assignments or other work is not accepted, students will receive a penalty of 100% after the due date and time i.e a zero mark for the late assessment.
4. If late submission of assignments or other work is accepted, students will be penalised by ten percent per calendar day for a late assessment submission (e.g. a mark equivalent to 10% of the total allocated for the assessment will be deducted from the marked value for every day that the assessment is late). This means that an assignment worth 20 will have two marks deducted per calendar day late. Hence if it was handed in three calendar days late and marked as 12/20, the student would receive 6/20. An assessment more than seven calendar days overdue will not be marked. Work submitted after this time (due date plus seven days) may result in a Fail - Incomplete (F-IN) grade being awarded for the unit.

Pass requirements

An overall grade of 50% is required. It is necessary to complete and submit, but not to pass each individual component, in order to pass this unit.

Students are advised that this unit is a SIGNIFICANT UNIT in which failure twice may lead to termination of a student’s course.

Referencing style

Students should use the Chicago Author-Date 16th-ed referencing style when preparing assignments.

More information on this referencing style can be obtained at http://lgdata.s3ˌwebsite-us-east-1.amazonaws.com/docs/1470/441889/Chicago_16th_COMPLETE_GUIDE_2012_April_up

Plagiarism

Plagiarism occurs when work or property of another person is presented as one's own, without appropriate acknowledgement or referencing. 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:
Supplementary and deferred examinations will be held at a date to be advised. 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 on a weekly basis for official Curtin correspondence. 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, policies and procedures relating to their 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.

Disability
Students with a disability or medical condition (e.g. mental health condition, chronic illness, physical or sensory disability, learning disability) are encouraged to seek advice from Disability Services www.disability.curtin.edu.au. A Disability Advisor will work with you and liaise with staff to identify strategies to assist you to meet unit (including fieldwork education) and course requirements, where possible. It is important to note that the staff of the university may not be able to meet your needs if they are not informed of your individual circumstances.

Recent unit changes
We welcome feedback as one way to keep improving this unit. Students are encouraged to provide unit feedback through eVALUate, Curtin’s online student feedback system (see evaluate.curtin.edu.au/info.). Recent changes to this unit include:

There has been a reduction in the number of summative assessment tasks to 4.

Previous summative tasks such as small revision tests have been made formative and the oral presentations have been removed.

See evaluate.curtin.edu.au to find out when you can eVALUate this unit.
## Program calendar

<table>
<thead>
<tr>
<th>Week</th>
<th>Begins</th>
<th>Room</th>
<th>TOPIC</th>
<th>Assessment</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>9 July</td>
<td>405.226</td>
<td>Orientation</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>16 July</td>
<td>405.226</td>
<td>Introduction, causes and classification of disease, medical procedures in diagnosis, imaging</td>
<td>JT</td>
</tr>
<tr>
<td>2</td>
<td>23 July</td>
<td>405.226</td>
<td>Review of cell organelles and their relevance to disease processes; review of genetics and role of normal and abnormal gene expression in disease processes</td>
<td>JT</td>
</tr>
<tr>
<td>3</td>
<td>30 July</td>
<td>405.226</td>
<td>Cell injury mechanisms and responses; mitochondrial dysfunction and reactive oxygen species, membrane pumps, calcium injury, reperfusion injury, cell adaptations, reversible and irreversible injury, necrosis and apoptosis. Cell and tissue age changes, neoplasia</td>
<td>JT</td>
</tr>
<tr>
<td>4</td>
<td>6 Aug</td>
<td>405.226</td>
<td>Inflammation and tissue repair, burns.</td>
<td>JT</td>
</tr>
<tr>
<td>5</td>
<td>13 Aug</td>
<td>405.226</td>
<td>Specific and non-specific defence mechanisms; complement, cell and antibody mediated immune responses, immunodeficiency, autoimmune diseases, tissue transplants and rejection.</td>
<td>JT</td>
</tr>
<tr>
<td>6</td>
<td>20 Aug</td>
<td>405.226</td>
<td>Diabetes I &amp; II Adrenal disorders: Cushing’s and Addison’s disease.</td>
<td>GA Lit Review</td>
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<tr>
<td>7</td>
<td>27 Aug</td>
<td></td>
<td>TUITION FREE WEEK</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>3 Sept</td>
<td>405.226</td>
<td>Cardiovascular system diseases</td>
<td>JT Mid-Sem Test</td>
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<tr>
<td>9</td>
<td>10 Sept</td>
<td>L: 405.228/9 T: 303.284</td>
<td>Cardiovascular system diseases</td>
<td>JT</td>
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<tr>
<td>10</td>
<td>17 Sept</td>
<td>405.226</td>
<td>Respiratory system diseases</td>
<td>JT</td>
</tr>
<tr>
<td>11</td>
<td>24 Sept</td>
<td>405.226</td>
<td>Respiratory system diseases</td>
<td>JT Case Study</td>
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<tr>
<td>12</td>
<td>1 Oct</td>
<td>L: 405.227/8 T: 405.229</td>
<td>Digestive system diseases</td>
<td>JT</td>
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<tr>
<td>13</td>
<td>8 Oct</td>
<td>405.226</td>
<td>Digestive system diseases</td>
<td>JT</td>
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<tr>
<td>14</td>
<td>15 Oct</td>
<td></td>
<td>STUDY WEEK</td>
<td></td>
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<tr>
<td>15</td>
<td>22 Oct</td>
<td></td>
<td>EXAMINATIONS</td>
<td></td>
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<tr>
<td>16</td>
<td>29 Oct</td>
<td></td>
<td>EXAMINATIONS</td>
<td></td>
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