School of Medicine

SHS310: Regional Anatomy

Subject Outline
Spring, 2014
On Campus
Wollongong

Subject Information
Credit Points: 8
Pre-requisite(s): EDPS101 /SHS 111 and SHS 112
Co-requisite(s): Nil
Restrictions: A quota may apply in any one year
Contact Hours: 2 hrs Lecture per week, 2 hrs of Laboratory

Subject Contacts
Subject Coordinator/Lecturer
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Consultation mode and times: Wednesday 930-1330

Student Support and Advice
For general enquiries please contact SMAH Central:
Location: 41.152
Telephone: 61 2 4221 3492
Email: smah-students@uow.edu.au
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Section A: General Information

Subject Learning Outcomes

On completion of this subject, students should be able to:

| a) | gain understanding of visceral organ structures and general pathology |
| b) | explain common clinical problems of visceral organs |

Subject Description

This course will teach detailed morphology and general pathology of human visceral organs. Clinical symptoms caused by visceral organ diseases will be explained in relation to particular region. It is a very practical course and leans towards advanced anatomy and common visceral organ diseases.

The course will provide you with a detailed morphology of the head, neck, thorax, abdomen, and pelvis with particular emphasis upon the viscera. Hence, it is a necessary pre-requisite for students to have the knowledge of system anatomy. You will be led, step by step, to learn the gross morphology of individual regions. The regional anatomy differs from the systemic anatomy because it focuses on the specific region linking to the understanding of the clinical problems. During the lecture you will be told firstly the location of the specific organ and its neighbouring structures, and then their blood supply, venous and lymphatic drainage, and nerve innervation. We then describe relevant visceral organ pathology and to certain extend of histology. Finally, common clinical symptoms to that specific region will be introduced. The knowledge you learn from this course will allow you to explain some common clinical health problems, which you may meet in day-to-day life. During the practical classes we will teach tissue-dissection skills and how to localise the projections of visceral organs.

Graduate Qualities

The University of Wollongong has developed five graduate qualities (http://www.uow.edu.au/student/qualities/index.html), which it considers express valuable qualities that are essential for UOW graduates in gaining employment and making an important contribution to society and their chosen field. Student development of the following graduate qualities will be enhanced by their participation in this subject:

1. **Informed**: Have a sound knowledge of an area of study or profession and understand its current issues, locally and internationally. Know how to apply this knowledge. Understand how an area of study has developed and how it relates to other areas.

2. **Independent learners**: Engage with new ideas and ways of thinking and critically analyse issues. Seek to extend knowledge through ongoing research, enquiry and reflection. Find and evaluate information, using a variety of sources and technologies. Acknowledge the work and ideas of others.

3. **Problem solvers**: Take on challenges and opportunities. Apply creative, logical and critical thinking skills to respond effectively. Make and implement decisions. Be flexible, thorough, innovative and aim for high standards.

4. **Effective communicators**: Articulate ideas and convey them effectively using a range of media. Work collaboratively and engage with people in different settings. Recognise how culture can shape communication.

5. **Responsible**: Understand how decisions can affect others and make ethically informed choices. Appreciate and respect diversity. Act with integrity as part of local, national, global and professional communities.

eLearning Space

This subject has materials and activities available via eLearning. To access eLearning you must have a UOW user account name and password, and be enrolled in the subject. eLearning is accessed via SOLS (student online services). Log on to SOLS and then click on the eLearning link in the menu column. For information regarding the eLearning spaces please use the following link: http://uowblogs.com/moodlelab/files/2013/05/Moodle_StudentGuide-1petpo7.pdf
Lecture, Tutorial, Laboratory Times
All timetable information is subject to variation. Check the latest information on the university web timetable via the Timetable link under Study Resources on the Current Students webpage or log into SOLS to view your personal timetable prior to attending classes.

Readings, References and Materials
Textbooks:
The following text(s) will need to be purchased by students enrolled in this class.


Prescribed Readings (includes eReadings):
The following texts are prescribed for this subject, but students are not expected to purchase these. They are available to students through the library on the subjects eLearning site.


Materials:
Anatomy Laboratory Gowns

Recommended Readings:
The following references complement the prescribed readings and textbooks:

1. Gray’s Anatomy: The Anatomical basis of Clinical Practice; Gray, 39th Ed. 2004

Recommended readings are not intended as an exhaustive list, students should use the Library catalogue and databases to locate additional resources.

Recent Changes to this Subject
Nil
<table>
<thead>
<tr>
<th>Week</th>
<th>Commencing Date</th>
<th>Lecture</th>
<th>Laboratory</th>
<th>Assessment</th>
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<tbody>
<tr>
<td>1</td>
<td>28/07/2014</td>
<td>Blood supply to head and neck</td>
<td>Blood supply to head and neck</td>
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</tr>
<tr>
<td>2</td>
<td>04/08/2014</td>
<td>Nose, paranasal sinuses, and salivary glands</td>
<td>Nose, paranasal sinuses, and salivary glands</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>11/08/2014</td>
<td>Thorax and mediastinum</td>
<td>Thorax and mediastinum</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>18/08/2014</td>
<td>Heart and pericardium</td>
<td>Heart and pericardium</td>
<td>Identification Quiz 1</td>
</tr>
<tr>
<td>5</td>
<td>25/08/2014</td>
<td>Pharynx, larynx and thyroid gland</td>
<td>Pharynx, larynx and thyroid gland</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>01/09/2014</td>
<td>Pleura, lungs, trachea bronchii</td>
<td>Pleura, lungs, trachea bronchii</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>08/09/2014</td>
<td>Oesophagus, Stomach, Spleen, and Coeliac Artery</td>
<td>Oesophagus, Stomach, Spleen, and Coeliac Artery</td>
<td>Identification Quiz 2</td>
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<tr>
<td>8</td>
<td>15/09/2014</td>
<td>Small and large intestine, blood and nerve supply to the intestine</td>
<td>Small and large intestine, blood and nerve supply to the intestine</td>
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<tr>
<td>9</td>
<td>22/09/2014</td>
<td>Liver, Gallbladder, Biliary Duct, and Pancreas</td>
<td>Liver, Gallbladder, Biliary Duct, and Pancreas</td>
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<tr>
<td>10</td>
<td>06/10/2014</td>
<td>Kidney, ureters, suprarenal glands</td>
<td>Kidney, ureters, suprarenal glands</td>
<td>Identification Quiz 3</td>
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<tr>
<td>11</td>
<td>13/10/2014</td>
<td>Urinary bladder and urethra</td>
<td>Urinary bladder and urethra</td>
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<tr>
<td>12</td>
<td>20/10/2014</td>
<td>Revision Cases</td>
<td>Revision</td>
<td>Dissection Presentation (20%)</td>
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<tr>
<td>13</td>
<td>27/10/2014</td>
<td>Revision</td>
<td>Laboratory Exam (25%)</td>
<td></td>
</tr>
</tbody>
</table>

Mid-Session Recess

<table>
<thead>
<tr>
<th>Week</th>
<th>Date</th>
<th>Lecture</th>
<th>Assessment</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>06/10/2014</td>
<td>Kidney, ureters, suprarenal glands</td>
<td>Identification Quiz 3</td>
</tr>
<tr>
<td>11</td>
<td>13/10/2014</td>
<td>Urinary bladder and urethra</td>
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</tr>
<tr>
<td>12</td>
<td>20/10/2014</td>
<td>Revision Cases</td>
<td>Dissection Presentation (20%)</td>
</tr>
<tr>
<td>13</td>
<td>27/10/2014</td>
<td>Revision</td>
<td>Laboratory Exam (25%)</td>
</tr>
</tbody>
</table>

Study Recess

<table>
<thead>
<tr>
<th>Exam Period</th>
<th>Final Theory Exam (45%)</th>
</tr>
</thead>
</table>

*The above timetable should be used as a guide only, as it is subject to change. Students will be advised of any changes as they become known.
Section B: Assessment

Assessment Summary

<table>
<thead>
<tr>
<th>Assessment Item</th>
<th>Form of Assessment</th>
<th>Due Date</th>
<th>Weighting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assessment 1</td>
<td>Identification Quiz 1, 2 and 3</td>
<td>Weeks 4, 7, 11</td>
<td>10%</td>
</tr>
<tr>
<td>Assessment 2</td>
<td>Group Dissection</td>
<td>Week 11</td>
<td>20%</td>
</tr>
<tr>
<td>Assessment 3</td>
<td>Practical Exam</td>
<td>Week 13</td>
<td>25%</td>
</tr>
<tr>
<td>Assessment 4</td>
<td>Final Theory Exam</td>
<td>Exam Period</td>
<td>45%</td>
</tr>
<tr>
<td>Total Marks</td>
<td></td>
<td></td>
<td>100%</td>
</tr>
</tbody>
</table>

Details of Assessment Tasks

**Assessment 1**

- **Identification Quiz 1, 2 and 3**
  - Due date: During your dissection tutorial class in weeks 4, 7 & 10
  - Weighting: 10%
  - Submission: Exam papers and answers must be submitted at the conclusion of the exam.
  - Type of Collaboration: Individual Assessment
  - Length: 10 minutes / 5 stations / Pin A & B
  - Details: During your laboratory class time you will have a written identification quiz. Each student will be asked to identify 10 structures of ranging difficulty. Content: Quiz 1 = Weeks 1-3, Quiz 2 = 4-6, Quiz 3 = 7-9
  - Style and format: In-class test
  - Marking Criteria: Assessment 1 will be marked using the following criteria: 1. Correct identification of pinned anatomical structures, including spelling. 100%

**Assessment 2**

- **Group Dissection**
  - Due date: Friday Week 11 during laboratory time
  - Weighting: 20%
  - Submission: Submitted in week 11 to examiners and Presented in Week 12
  - Type of Collaboration: Group Project
  - Details: The objective of the dissection will be to produce a prosection relevant to the subject content. Each group of 2 to 6 students will be given a cadaveric section to dissect. Each group will be responsible for the care and maintenance of the specimen during the dissection period. Students will commence dissection in Week 1 and will have until week 11 to produce the completed prosection. The majority of dissection should be undertaken during the dissection tutorial, but you may be set time aside outside of this to dissect.
  - Style and format: Presentation or work
  - Marking Criteria: Assessment 2 (100%) will be marked using the following criteria:
    1. The quality and quantity of dissection undertaken (25%)
    2. Your understanding of the anatomy relevant to your dissection (25%) (study card)
    3. Your understanding of how the anatomy relates to clinical conditions (25%) (1 page report)
    4. Your description of the dissection process (25%) (Presentation in week 11 or 12)
<table>
<thead>
<tr>
<th>Assessment 3</th>
<th>Practical Exam</th>
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<tbody>
<tr>
<td>Due date</td>
<td>Week 13 During the normal Friday Practical Time</td>
</tr>
<tr>
<td>Weighting</td>
<td>25%</td>
</tr>
<tr>
<td>Submission</td>
<td>Exam papers and answers must be submitted at the conclusion of the exam.</td>
</tr>
<tr>
<td>Type of Collaboration</td>
<td>Individual Assessment</td>
</tr>
<tr>
<td>Length</td>
<td>60 stations / 2 structures per station / 120 marks.</td>
</tr>
<tr>
<td>Details</td>
<td>The laboratory exam will be conducted during the study week and will comprise of 60 stations, requiring the identification of 2 anatomical structures at each station. There will be a time period of 60 seconds allocated to each station. The exam will cover the content delivered during the practical laboratories throughout the session. Answers will be written and spelling must be correct.</td>
</tr>
<tr>
<td>Style and format</td>
<td>Timed stations in the anatomy laboratory / written answers</td>
</tr>
<tr>
<td>Marking Criteria</td>
<td>Assessment 3 will be marked using the following criteria: 1. Correct identification (including spelling) of the pinned anatomical structures 100%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Assessment 4</th>
<th>Final Theory Exam</th>
</tr>
</thead>
<tbody>
<tr>
<td>Due date</td>
<td>During exam period</td>
</tr>
<tr>
<td>Weighting</td>
<td>45%</td>
</tr>
<tr>
<td>Submission</td>
<td>Exam papers and answers must be submitted at the conclusion of the exam.</td>
</tr>
<tr>
<td>Type of Collaboration</td>
<td>Individual Assessment</td>
</tr>
<tr>
<td>Length</td>
<td>3 hours</td>
</tr>
<tr>
<td>Details</td>
<td>The final theory exam will comprise of three sections. 1. 60 x Multiple choice questions. 2. Short answer questions and 3. Comprehensive answer questions. All content will be drawn directly from the material covered during lectures/laboratory. Clinical anatomy problem solving is assessable.</td>
</tr>
<tr>
<td>Style and format</td>
<td>Final exam</td>
</tr>
<tr>
<td>Marking Criteria</td>
<td>Assessment 4 will be marked using the following criteria: 1. Multiple choice questions; 2. 100% correct based upon selection of A-E (computer marking sheets) Short and comprehensive answers; 2. A marking schema will be used to award marks for both these sections.</td>
</tr>
</tbody>
</table>

**Minimum Requirements for a Pass in this Subject**

To receive a clear pass in this subject a total mark of 50% or more must be achieved. In addition, failure to meet any of the minimum performance requirements is grounds for awarding a Technical Fail (TF) in the subject, even where total marks accumulated are greater than 50%.

The minimum performance requirements for this subject are:

- pass the final theory exam (50%)
Minimum Student Attendance and Participation:
It is expected that students will allocate 4 hours per week to this subject, including any required class attendance, completion of prescribed readings and assessment tasks.

Student attendance at tutorials, practicals, seminars and/or simulations is compulsory and students must attend at least 100% of classes. Absences will require the submission of an application for Academic Consideration via SOLS and the presentation of suitable documentation, for example a Medical Certificate, to Student Central as soon as practical. For further details about applying for academic consideration visit the Student Central webpage:

Scaling:
Scaling will not occur in this subject.

Late Submission:
Late submission of an assessment task without an approved extension of the deadline is not acceptable. If you are unable to submit an assessment due to extenuating circumstances (e.g. medical grounds or compassionate grounds), you can make an application of academic consideration. Not all circumstances qualify for academic consideration. For further details about applying for academic consideration visit the Student Central webpage:

Late Submission Penalty
Marks will be deducted for late submission at the rate of 5% of the total possible marks for that particular assessment task per day. This means that if a piece of work is marked out of 100, then the late penalty will be 5 marks per day (5% of 100 possible marks per day). The formula for calculating the late penalty is: the total possible marks x 0.05 x number of days late. For the purposes of this policy a weekend (Saturday and Sunday) will be regarded as two days.

For example:
- Student A submits an assignment which is marked out of 100. The assignment is submitted 7 days late. This means that a late penalty of 35 marks will apply (100 x 0.05 x 7). The assignment is marked as per normal out of 100 and is given a mark of 85/100, and then the late penalty is applied. The result is that the student receives a final mark of 50/100 for the assignment (85 (original mark) – 35 marks (late penalty) = 50/100 (final mark)).
- Student B submits a report which is marked out of 20. The report is submitted three days late. This means that a late penalty of 3 marks will apply ((20 x 0.05 x 3). The report is marked as per normal out of 20 and is given a mark of 17/20, and then the late penalty is applied. The result is that the student receives a final mark of 14/20 for the report (17 (original mark) – 3 marks (late penalty) = 14/20 (final mark)).

No marks will be awarded for work submitted either after the assessment has been returned to the students or more than two weeks after the due date, whichever is the sooner. This does not apply to situations where a particular assessment task is undertaken by students at different times throughout the session, but where the assessment is based on experiments or case studies specific to a student. In this case no marks will be awarded for work submitted more than two weeks after the due date.

Notwithstanding this, students must complete all assessment tasks to a satisfactory standard and submit them, regardless of lateness or loss of marks, where submission is a condition of satisfactorily completing the subject.
Supplementary Assessments
Supplementary assessment may be offered to students whose performance in this subject is close to that required to pass the subject, and are otherwise identified as meriting an offer of a supplementary assessment. The precise form of supplementary assessment will be determined at the time the offer of a supplementary assessment is made.

Students can log on to SOLS and click on the link titled “Supplementary Assessment” to view any applicable offers or use the following link; [http://www.uow.edu.au/student/exams/suppassess/index.html](http://www.uow.edu.au/student/exams/suppassess/index.html)

System of Referencing Used for Written Work
The Author-Date (Harvard) referencing system should, unless otherwise specified for a particular assignment (check Details of Assessment Tasks), be utilised. A summary of the Harvard system can be accessed on the Library website at: [http://public01.library.uow.edu.au/refcite/style-guides/html/](http://public01.library.uow.edu.au/refcite/style-guides/html/)

Use of Internet Sources
Students are able to use the Internet to access the most current information on relevant topics and information. Internet sources should only be used after careful critical analysis of the currency of the information, the role and standing of the sponsoring institution, reputation and credentials of the author, the clarity of the information and the extent to which the information can be supported or ratified by other authoritative sources.

Plagiarism
The full policy on Academic Integrity and Plagiarism is found in the Policy Directory on the UOW website.

"The University's Academic Integrity and Plagiarism Policy, Faculty Handbooks and subject guides clearly set out the University's expectation that students submit only their own original work for assessment and avoid plagiarising the work of others or cheating. Re-using any of your own work (either in part or in full) which you have submitted previously for assessment is not permitted without appropriate acknowledgement. Plagiarism can be detected and has led to students being expelled from the University.

The use by students of any website that provides access to essays or other assessment items (sometimes marketed as ‘resources’), is extremely unwise. Students who provide an assessment item (or provide access to an assessment item) to others, either directly or indirectly (for example by uploading an assessment item to a website) are considered by the university to be intentionally or recklessly helping other students to cheat. This is considered academic misconduct and students place themselves at risk of being expelled from the University."

Submission of Assignments
Refer to the submission requirements under the details of the individual assessments. Students should ensure that they receive a receipt acknowledging submission. Students will be required to produce this in the event that an assessment task is considered to be lost. Students are also expected to keep a copy of all their submitted assignments in the event that re-submission is required.

Assessment Return
Students will be notified when they can collect their assign or view their marked assessment. In accordance with University Policy marked assignments will usually only be held for 21 days after the declaration of marks for that assignment.
Section C: General Advice

Students should refer to the Faculty of Science, Medicine and Health website for information on policies, learning and support services and other general advice.

University Policies

Students should be familiar with the following University policies:

a. Code of Practice – Teaching and Assessment

b. Code of Practice – Research, where relevant

c. Code of Practice – Honours, where relevant

d. Student Charter

e. Code of Practice – Student Professional Experience, where relevant

f. Academic Integrity and Plagiarism Policy

g. Student Academic Consideration Policy

h. Course Progress Policy

i. Graduate Qualities Policy

j. Academic Grievance Policy (Coursework and Honours Students)

k. Policy and Guidelines on Non-Discriminatory Language Practice and Presentation

l. Workplace Health and Safety, where relevant

m. Intellectual Property Policy

n. IP Student Assignment of Intellectual Property Policy, where relevant

o. Policy on Ethical Objection by Students to the Use of Animal and Animal Products in Coursework Subjects, where relevant

p. Human Research Ethics Guidelines, where relevant

q. Animal Research Guidelines, where relevant
r. Student Conduct Rules and accompanying Procedures or Research Misconduct Policy for research students

Student Support Services and Facilities
Students can access information on student support services and facilities at the following link. This includes information on “Academic Support”, “Starting at University”, “Help at University” as well as information and support on “Career’s and Jobs”. http://www.uow.edu.au/student/services/index.html

Student Etiquette
Guidelines on the use of email to contact teaching staff, mobile phone use in class and information on the university guide to eLearning ‘Netiquette’ can be found at http://www.uow.edu.au/student/elearning/netiquette/index.html

Version Control Table

<table>
<thead>
<tr>
<th>Version Control</th>
<th>Release Date</th>
<th>Author/Reviewer</th>
<th>Approved By</th>
<th>Amendment</th>
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<tr>
<td>1</td>
<td>20140707</td>
<td>Dr Gregory Peoples</td>
<td>Miss Emma Purdy</td>
<td>Final SHS310 Spring 2014</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Subject Coordinator</td>
<td>ADE Nominee</td>
<td>Outline</td>
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<tr>
<td></td>
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