

MEDIIMAGE 701

IMAGING ANATOMY AND PATHOLOGY

15 points
Semester 1 or Semester 2, 2018

Course Description

Students will develop an integrated understanding of anatomy and pathology as it applies to medical imaging in the clinical context. The course introduces the principles of medical science at whole body, organ, tissue, cellular and subcellular levels and includes the fundamentals of anatomy, physiology and pathophysiology of the major systems of the human body in relation to specific regions and pathologies.

Objectives of the Course

This course aims to enhance the student's clinical reasoning skills and to enable them to evaluate the use of a variety of imaging modalities in patient diagnosis and management. It will extend students' overall professional competence through an academically applied level of understanding of clinical science. Anatomical knowledge of various systems and associated pathological processes will be developed, linked to their functional and clinical relevance.

Learning Outcomes

1. Demonstrate a comprehensive understanding of normal anatomy and selected pathological processes by explaining the clinical course of a disease/injury using supporting images from a range of imaging modalities.
2. Evaluate the advantages and limitations of a range of imaging modalities when applied to the investigation of specific pathologies.
3. Critically examine strategies for the selection of appropriate imaging modalities as part of the diagnostic, management and/or treatment pathway.

Teaching Staff



Adrienne Young
Course Coordinator
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Programme and Course Advice

This course is compulsory for the following Medical Imaging endorsed programmes: PGDipHSc(MRI), PGDipHSc(Ultrasound), PGDipHSc(Medical Imaging) and PGCertHSc(Medical Imaging) programmes.

This course is recommended as suitable to be undertaken as a one-off course (Certificate of Proficiency) for registered Medical Imaging Technologists for their Continuing Professional Development (CPD).

All Medical Imaging Technologists and students admitted to any one of the above programmes are eligible for direct entry to this course. For all other students, departmental approval is required and a concession request must be submitted when applying to enrol in this course.

Course Delivery

This course is offered in both semesters, enabling students the flexibility of enrolling in either semester 1 or semester 2.

The course is delivered fully online by distance via the University of Auckland's learning management system 'Canvas'. It will incorporate a range of learning approaches including videos, webpages, links to the library databases and resources, and utilising online technologies to promote shared learning opportunities.

Students are urged to discuss privately any impairment-related requirements face-to-face and/or in written form with the Course Coordinator.

Workload and contact hours

The total expected workload for this course is approximately **150 hours**. This may be broken down as follows:

- Set readings relevant to anatomy, pathology and diagnostic pathways (40 hours)
- Other resources provided on Canvas e.g. videos, websites (10 hours)
- Assignments and self-directed learning (100 hours)

Communication

All official communication to a student will be sent to the student's current University email address (username@aucklanduni.ac.nz) and the student is responsible for ensuring that any desired forwarding to other addresses is in place and operating correctly. Staff will not be responsible for any consequences if students fail to read and respond to University correspondence in a timely manner.

Students are encouraged to use the course discussion forum as much as possible for communication with staff and other students. Email may be used for more private matters. Staff will endeavour to respond to email queries as soon as possible.

Course Textbook

There is not a required textbook for this course. A large selection of readings and other resources will be able to be accessed online via the course website and the Philson Library databases.

Pre-Course Reading

It is highly recommended that students access the following online textbook via the Philson Library and read 'Chapter 2: Abdomen' as preparatory pre-reading for this course. This should be revision and will be assumed prior knowledge when you begin the course:



Clinically oriented anatomy (7th ed.)

Keith L Moore Arthur F Dalley; A. M. R Agur

Philadelphia : Wolters Kluwer Health/Lippincott Williams & Wilkins c2014

Assessment

An aggregated mark of 50% or more is required to successfully pass this course. Resubmission of failed assessments is not permitted.

Penalties for excessive word count and/or late submission (without prior written approval for an extension) will be applied in accordance with the 'Medical Imaging Assessment Requirements and Presentation Criteria' document.

The following is indicative of the type of assessments to be completed for this course:

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| • Written Case Study | 35% |
| • Poster Presentation | 30% |
| • Evaluative Report | 30% |
| • MCQ Tests | 5% |

Academic Integrity

The University of Auckland will not tolerate cheating, or assisting others to cheat, and views cheating in coursework as a serious academic offence. The work that a student submits for grading must be the student's own work, reflecting his or her learning. Where work from other sources is used, it must be properly acknowledged and referenced. This requirement also applies to sources on the world-wide web. All students' assessed work will be reviewed against electronic source material using computerised detection mechanisms.

Student Feedback

Assessments will be marked, moderated and returned within 3 weeks of submission, with the possible exception of the last course assessment which will be returned after the Board of Examiners meeting. Feedback will be provided on all assessments in the form of a marking rubric and/or individual or class comments. This feedback will be accessed via email or Canvas as identified by the Course Coordinator.

At the end of this course, feedback from students may be requested in the form of an online course evaluation survey.

Disclaimer

Although every reasonable effort is made to ensure accuracy, the information in this document is provided as a general guide only for students and is subject to alteration.

