

# MEDIIMAGE 721

## MRI SAFETY

15 points

Semester 1, 2018

### Course Description

Extends students' understanding of the underlying physical principles related to a range of MRI safety issues. The course will provide students with the opportunity to explore these safety issues in detail and to apply this knowledge in critically evaluating current policies and practices. New and emerging safety topics will also be examined.

### Objectives of the Course

This course aims to extend students' theoretical knowledge underpinning MRI safety issues. Students will further develop their ability to contribute confidently to the clinical decision-making process when encountering safety issues in the MRI environment.

### Learning Outcomes

1. Apply a clinical decision-making framework to a range of clinical MRI safety scenarios.
2. Discuss the roles and responsibilities of various staff in relation to maintaining a safe MRI environment.
3. Critically evaluate MRI safety practices, justifying or suggesting modifications to these practices based on current literature.
4. Discuss emerging safety issues and assess their potential impact on current clinical practice.

### Teaching Staff



Adrienne Young  
Course Coordinator  
Email: [aj.young@auckland.ac.nz](mailto:aj.young@auckland.ac.nz)

### Programme and Course Advice

Students within the PGDipHSc(MRI) are encouraged to select this course as their elective option. For these students, MEDIMAGE 714 is a prerequisite course.

For all other students, departmental approval is required and a concession request must be submitted when applying to enrol in this course.

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

### Course Delivery

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 library, 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 MRI safety (30 hours)
- Other resources provided on Canvas e.g. videos, websites (10 hours)
- Online interactive group tasks (20 hours)
- Assignments and self-directed learning (90 hours)

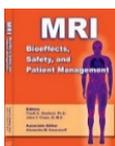
## Communication

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 although access to the following textbook is highly recommended:



### **MRI bioeffects, safety, and patient management**

Frank Shellock and John Crues (editors)

Los Angeles, California: Biomedical Research Publishing Group. 2014

Available at PHILSON LIBRARY Main Collection (WN185 S54 2014 )

A large selection of readings and other resources will be able to be accessed online via the course website and the Philson Library databases.

## Assessment

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

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

- Online Discussions 20%
- Clinical Decision-Making Portfolio 50%
- Poster or Video Presentation 30%

## 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 Turnitin 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.*

