

Guide for Clinical Supervisors

Bachelor of Medical Radiation Science (Medical Imaging)

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Aims

The purpose of this guide is to provide clinical supervisors and mentors with a convenient reference to the academic and clinical education of Medical Radiation Science (Medical Imaging) at the University of South Australia (UniSA). Please use this guide for general information only. The student is expected to provide you with specific information relating to their current clinical course when they meet with you at the beginning of their placement.

Please use this guide in conjunction with information on the following pages:

Clinical Placement Unit

(https://study.unisa.edu.au/student-placements-and-internships/nursing-health-medical-sciences/cpu/)

Program Information for Industry Partners - Medical Radiation

(https://lo.unisa.edu.au/course/view.php?id=7611§ionid=127640)

If you are not able to access the website or the information you require is not there, please contact the relevant UniSA Course Coordinator in the first instance.

This guide provides a variety of information including, but not limited to, the roles of UniSA academic staff, clinical mentors and clinical supervisors, as well an overview of the Bachelor of Medical Radiation Science (Medical Imaging) program, and clinical practice supervision guidelines.

We hope you find this guide valuable. Please do not hesitate to contact the UniSA Academic team if you have further queries regarding the program.

University Contacts

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Roles of the Academic Staff

The academic staff within medical imaging at UniSA are responsible for:

- Course co-ordination of all academic and clinical courses within the Bachelor of Medical Radiation Science (Medical Imaging) (including honours program)
- Calculation of the final grades for all courses and monitoring of student progress
- Clinical student placement allocation (local and interstate) in conjunction with the UniSA Clinical Placement Unit (CPU)
- Coordination and delivery of pre-clinical skill development workshops
- Providing learning opportunities relating to Medical Imaging theory
- Conducting practical sessions and simulated learning experiences in the on-campus X-ray suites
- Maintaining regular contact with students during their clinical placement. This includes:
 - Monitoring development and progress of assessment tasks through face-toface, telephone and/or email contact for metropolitan, rural and interstate placement students
 - o Monitoring of student online discussion during placement
 - Counselling of students when necessary
- Maintain regular contact with clinical supervisors and mentors

Roles of the Clinical Supervisors and Mentors

The clinical supervisor has an overall role of liaison with the relevant UniSA course coordinator, the students and the clinical mentors within the department.

The clinical supervisor is responsible for:

- Orientating students to the clinical site
- Directly supervising the student or allocating a suitable mentor to each student
- Maintaining an overall awareness of the students' clinical progress and wellbeing within the clinical environment by discussion with the student and mentors and liaison with the UniSA academic staff if any issues should arise
- Providing the student with formative feedback during the clinical placement
- Facilitating completion of the student summative clinical report
- Advising the student on the how to act professionally, safely and with respect to staff and patients
- Allocation of clinical mentors as required
- Providing a role model for the students within the clinical environment

The clinical mentor is responsible for:

- Supervising the students in the clinical placement as requested by the clinical supervisor
- Providing informal feedback during the clinical placement
- Reporting to the clinical supervisor if concerns are raised relating to the well-being or performance of the student during their clinical placement
- Providing a role model for students within the clinical environment
- When requested, assist the clinical supervisor with completion of the student's clinical report by providing information relating to the performance of the student during their placement

UniSA Bachelor of Medical Radiation Science (Medical Imaging)

The Bachelor of Medical Radiation Science (Medical Imaging) is designed to produce graduates who are life-long learners, who can adapt to an environment of rapidly changing technologies, with the necessary skills, knowledge and attitudes to enable them to gain full registration. The clinical program aims to develop professional knowledge, skills and attitudes using an integrated approach where placements are preceded by on campus academic learning. Students are encouraged to apply their academic knowledge to the clinical environment during their clinical program and to bring their clinical experiences to their academic studies.

The Bachelor of Medical Radiation Science (IBRS) and the Bachelor of Medical Radiation Science with honours (IHRS) programs are built on nine graduate qualities which have been developed and integrated from the 'Professional Capabilities' and 'Code of Conduct' of the Medical Radiation Practice Board of Australia (MRPBA), as well as the broader graduate qualities of UniSA. These qualities define how our graduates will act when they exit the program and begin to practice as entry level radiographers.

Development of Clinical Skills

The clinical experience is introduced in second year with placements which follow theory and pre-clinical skills sessions in the academic environment. In the third year of the program students are given the opportunity to apply their developing body of knowledge to the clinical environment in alternating academic and clinical blocks. Fourth year clinical placement blocks are commenced with a one week's pre-clinical workshop series to introduce additional professional information. This approach aims to build on the student's competency achievements and consolidate prior learning in preparation for graduating as fully registered practitioner.

Participating in clinical placements is vital for the development of the student's professional skills and competencies to assist the students to become registered with the MRPBA. When developing the objectives, aims and assessments of academic and clinical courses within the IBRS and IHRS programs, the MRPBA Professional Capabilities and Codes of Conduct for Medical Radiation Practice were used. Currently the graduating student is eligible for full registration as a medical radiation practitioner. Skills developed during this program include:

- Patient and clinical assessment
- Application of the science of medical imaging to include:
 - o General Radiography
 - Fluoroscopy
 - o Theatre
 - Emergency/Trauma
 - Computed Tomography
- Image processing and data recording
- Quality management and diagnostic efficiency
- Image interpretation
- Mentoring, clinical reasoning and research

The students will also have the theoretical knowledge to underpin future specialist training. Students are exposed to engage clinical observation in specialist areas, without an expectation of the graduate to practice competently and independently in these areas. These areas include:

- MRI
- Mammography
- BMD
- Advanced applications in CT scanning
- Ultrasound

- Interventional imaging and advanced angiographic applications
- Information systems
- Nursing
- Administration

Students are expected to build and maintain clinical competence through both academic and clinical courses, as they work towards the graduate level and the capacity to work independently. Each course has stated aims and objectives informed by the Professional Capability Statements of the MRPBA. The discipline specific academic courses include the underlying principles and skills required for clinical practice. The clinical courses (Medical Imaging Clinical Practice 1, 2, 3 and 4, Medical Imaging Honours Clinical Practice 4, Medical Imaging Professional Entry Practice 1 and 2 and Medical Imaging Honours Professional Entry Practice 1) provide the student with opportunities to develop clinical skills from novice to entry-level practitioner.

To ensure that the student has an opportunity to gain a diverse range of experiences throughout their degree, guiding principles for allocation of clinical placements are used.

Allocation of Clinical Placements

As per the Medical Radiation Practice Accreditation Committee (MRPBAC) accreditation standard 3.12 (MRPAC, Accreditation Standards: Medical Radiation Practice 2019), 'the quality, quantity, duration and diversity of student experience during work integrated learning in the program is sufficient to produce a graduate who has demonstrated the knowledge, skills and professional attributes to safely and competently practice across a broad range of medical radiation practice settings'. To ensure this standard is met, students will be required to undertake a range of clinical placements from the following categories: 1) public and private hospitals (metropolitan), 2) private practice not attached to a hospital, 3) specialty hospital, and 4) regional/rural hospitals/clinics. The allocated placement time within each category may vary and will depend on the required learning experience and placement availability. In their 4th year, students attend at least one placement in a major public hospital. All students require shift or out of hours experience during their program.

Assessment of Clinical Skills

Students are required to demonstrate evidence of their developing clinical skills, knowledge and attitudes through competency assessments in the clinical setting, a clinical report (from the clinical supervisor), and through other assessments administered by the academic teaching team.

To pass each clinical course the student must reach a '*competency milestone*'. This is a collection of competency assessments which introduce higher grades of complexity as the student progresses through their clinical courses. The complexity of the '*competency*'

milestones' involves two elements. The first of these elements involves a prescribed set of *competency assessments*. Added to this, each *competency assessment* is categorised by levels of difficulty ranging from class 1 to 3. Some of the *competency assessments* are mandatory, and some are elective; giving the student some flexibility for some skills that are less frequently performed but still required. In some special cases, if the student can't achieve a competency in the clinical setting, they will be given an opportunity to demonstrate the competency in a simulated manner within the University of South Australia or at the individual clinical sites. Failure to reach the *competency milestone* may impact on the student must have successfully completed the required number of *competency assessments* outlined in their clinical workbook. These numbers may vary according to the changes made in consultation with industry partners and technical and procedural changes in the workplace.

Type of experience expected					
Course	Stage of program	Class			
Clinical Practice 1	Second half of year 2	1			
Clinical Practice 2	Across year 3	1,2			
Clinical Practice 3	First half year 4	1,2,3			
Clinical Practice 4 and Honours Clinical Practice 4	First half year 4	1,2,3			
Professional Entry Practice 1 and Honours Professional Entry Practice 1	Second half year 4	1,2,3			
Professional Entry Practice 2	Second half year 4	1,2,3			
EXPLANATION OF CLASSES:		·			
Class 1 (easy)	patient mobile and cooperative, with no motective technique required	odification to			
Class 2 (moderately difficult)	patient mobile or in a wheelchair, possible communication barrier, age or language related, minor modifications to technique may be required				
Class 3 (very difficult)	immobile patient including trauma situation, theatre case or mobile radiography, limited se modification to technique required.	ward patient, ries or major			
Please refer to the student's clinical workbook for milestone requirements associated with competency					

assessments

To record examinations in the workbook for all sections except the MODALITIES section, the student must undertake the lead role with minimal direction, during the examination. Under this definition it is acceptable for the supervising radiographer to assist the student. When a completed examination satisfies the current clinical department's criteria for acceptability, the supervising radiographer is to print and sign their name next the examination record in the student workbook.

When the student has performed and recorded the defined number of examinations for a particular competency, they may approach the clinical supervisor or a delegated registered radiographer to perform a *competency assessment*. The assessing radiographer will mark

each section as Competent or Not Competent and include comments to support their decisions. The sections included in the competency assessment page are outlined in the text box below. Further information is also available in the student's clinical workbook.

The student must be deemed competent in all aspects listed below to achieve a pass for a *competency assessment*.

- **1. Safe Practice -** Appropriate personal and patient safety, safe application of radiographic equipment, safe application of manual handling, works within scope of practice.
- Professional Conduct Professional behavior shown to staff, patient and carers at all times, uniform, name badge and luxel visible and maintenance of strict patient confidentiality
- **3.** Communication and Care Clear explanations to the patient, respect and courtesy shown at all times, recognition of patients' needs, respects rights and sensitivities of the patient, appropriate interaction with other members of health care team
- 4. Motivation and Organisation Seeks new information, displays respect and trust in authority of others, responds well to constructive criticism, shows initiative
- Radiation Protection Checks request form for correct ID, authorisation, adheres to ALARA principle, checks for pregnancy and responds appropriately and uses appropriate radiation protection for self and others
- 6. Radiographic Technique Uses radio-opaque markers, ensures all technical factors correct prior to exposing, ensures logical sequence of projections taken, selects correct grid/non grid technique, , SID.
- 7. Patient Positioning Accurate positioning of the patient, correct centring points chosen, good use of positioning aids.
- 8. Equipment/Instrumentation Manipulation Understanding of exposure factors, select correct factors, sound knowledge of control console, appropriate use of automatic exposure devices, understanding of CR/DR system
- **9.** Concluding the Examination Completion of examination fluently, refers to Radiologist appropriately, offers appropriate information to the patient, processing/post processing completed correctly, films dispatched appropriately.
- **10. Anatomy & Pathology Knowledge –** Thorough image evaluation (PACEMEN), good suggestions for improvements, thorough knowledge of radiographic anatomy and relevant pathology

To record entries in the MODALITIES section of the clinical workbook, the student must be present for the entire examination to observe and may play an assistant role. The student will be required to complete all rows in the table of observation experiences for the various modalities over the duration of the program.

NOTE:

It is important for the supervising registered radiographer(s) to complete their details in the appropriate section of the student workbook. These details include their name, location of employment and signature. This will facilitate cross referencing of signatures if needed when the clinical workbook is assessed.

Retention of Clinical Skills

Students are encouraged to not only concentrate on developing new skills, but also to maintain the ones that they have developed earlier in their program. The student's ability to retain skills

will be assessed through the clinical report (by the clinical supervisor), and also through activities that are assessed by academic staff.

Program Schedule

Commencing students in the IBRS and IHRS are offered a discipline specific place ie Medical Imaging, Nuclear Medicine or Radiation Therapy. Students are not given an option to change their discipline specific stream. In the second half of the second year of the program, students may apply to enroll in an Honours program as part of their degree. These students will enroll in all the same courses as those students not participating in the Honours program with the exception of 'Medical Imaging Honours Clinical Practice 4' and 'Medical Imaging Honours Professional Entry Practice 1'. Students completing these two courses have their written assessment workload adjusted. A representative clinical grid is available at the end of this guide to outline the clinical requirements for both the 'pass' and 'with honours' options of the program.

First Year

Academic Courses (Foundation	Clinical Placement	
First Half	Second Half	
Human Anatomy 100	Medical Radiation Human	
Human Physiology 100	Anatomy	
Foundations of Health	Human Physiology 101	
Physics for Medical Radiation 1	Pathology	
	Physics for Medical Radiation 2	

Second Year

cific)	onnical i lacement	
st Half	Second Half	Second Half
nan Anatomy 201(Gross and	Medical Imaging Studies 2	Medical Imaging Clinical Practice 1
tional)	Introduction to Evidence-Based	
lied Psychology	Practice and Health Research	
dical Imaging Studies 1	Physics for Medical Radiation 4	
vsics for Medical Radiation 3		
t Half nan Anatomy 201(Gross and tional) blied Psychology dical Imaging Studies 1 vsics for Medical Radiation 3	Second Half Medical Imaging Studies 2 Introduction to Evidence-Based Practice and Health Research Physics for Medical Radiation 4	Second Half Medical Imaging Clinical Practi

Medical Imaging Studies 1

Principles of Computer Radiography and Digital Radiography; PACS; accurate positioning techniques and image evaluation of the upper and lower extremities, thorax, abdomen and shoulder and pelvic girdles; radiographic equipment (including accessories); automatic exposures, exposure factors; patient care, privacy and communication; radiation safety.

Medical Imaging Studies 2

Radiographic procedures of the spine, head and associated regions; digital imaging technology; quality assurance; image evaluation; cultural considerations; teamwork; radiation safety.

Medical Imaging Clinical Practice 1 (Entry-Level to Novice student)

clinical skills development building on technical skills gained in previous clinical courses including patient care and communication, safety, professional behaviour, team working, self-motivation, self-directed learning and clinical reasoning.

Third Year

Academic Courses (Foundation	Medical Imaging Clinical	
specific)		Placement
First Half	Second Half	First Half & Second Half
Medical Imaging Studies 3	Specialised Medical Radiation	Medical Imaging Clinical Practice 2
CT and PET imaging	Medical Imaging Studies 4	
Advanced Evidence Based		
Practice or Health Science		
Honours Preparation		

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Medical Imaging Studies 3

Modified radiographic techniques and patient care relating to trauma, mobiles & operating theatres, geriatric, paediatric; digital imaging manipulation; image analysis and evaluation; principles of tomography; infection control; fluoroscopy; contrast media; radiographic examinations involving contrast media; the disabled patient; teamwork; scope of practice.

CT and PET Imaging

Physical principles of CT, PET and PET/CT and their application to medical diagnosis and treatment; instrumentation; generations of scanners; Helical/spiral CT systems; multislice scanners; imaging/scanning parameters; patient positioning; examination preparation; contrast media; image reconstruction; image quality; artefacts; quality assurance procedures; image evaluation; image interpretation; anatomy recognition in multiple planes; pathology; image manipulation; patient and staff safety issues; biological effects: patient care including risk factors; radiation safety; dosimetry; interpersonal communication, responding empathically, nursing skills/patient interactions; hybrid imaging; image coregistration; image fusion; attenuation correction; clinical applications of co-registration and image fusion; quality assurance and control; protocols of contemporary practice; advanced current CT procedures; radioisotopes, biodistribution of radiopharmaceuticals, paediatric considerations; radiation therapy simulation and planning; professionalism; ethics; legalities.

Medical Imaging Studies 4

Equipment and physical principles of imaging systems including digital imaging; image acquisition; image manipulations; angiography procedures; DSA; interventional techniques; mammographic procedures; bone mineral density; image interpretation; image quality; image evaluation; anatomy recognition in multiple planes; pathology; artefacts; quality assurance procedures; conflict resolution, patient care; nursing role; teamwork.

Medical Imaging Clinical Practice 2 (Novice to Intermediate Student)

clinical skills development building on technical skills gained in previous clinical courses including patient care and communication, safety, professional behaviour, team working, self-motivation, self-directed learning and clinical reasoning.

Specialised Medical Radiation

Principles of MRI and US and their application to medical diagnosis and treatment; instrumentation; imaging parameters; image reconstruction; image quality; artefacts; image evaluation; anatomy recognition in multiple planes; pathology; patient and MRI staff safety issues; biological effects; patient care including risk factors; interpersonal communication skills contact, responding empathically, nursing skills/patient interactions; image co-registration; NEMA standards, International Electrotechnical Commission (IEC) 'Standards for Australia/New Zealand'; DICOM standards; the tendering process; revision of quality control of the gamma camera including common terminology/definitions; quality management; molecular imaging agents/probes; treatment of inflammatory and tumor processes; professionalism; ethics; legalities; IMRT; Brachytherapy; MRI in RT planning; MRI fusion imagery.

Fourth Year

Medical Imaging Skills Development	
First Half (Clinical Courses)	Second Half (Clinical Courses)
Medical Imaging Clinical Practice 3	Medical Imaging Professional Entry Practice 1 or
Medical Imaging Clinical Practice 4 or Medical	Medical Imaging Honours Professional Entry Practice
Imaging Honours Clinical Practice 4	1
Health Science Honours thesis	Medical Imaging Professional Entry Practice 2
	Health Science Honours thesis
Medical Imaging Clinical Practice 3 (Intermediate to Inc	dependent Student)
Clinical skills development to a level of thorough kno	wledge and understanding of the technical skills; patient
care and communication; safety; professional be	ehaviour, team working, self-motivation, self-directed
learning, quality assurance and legal and ethical iss	sues.
Medical Imaging Clinical Practice 4 and Medical Imagin	g Honours Clinical Practice 4 (Independent to Autonomous
Student)	
Clinical skills development to a level of thorough kno	wledge and understanding of the technical skills; patient
care and communication, safety, professional beha	aviour, team working, self-motivation, legal and ethical
issues, scope of practice, self-reflection, clinical re	easoning, preparation of recruitment and job selection
procedures.	
Medical Imaging Professional Entry Practice 1 and	Medical Imaging Honours Professional Entry Practice 1
(Autonomous to Proficient Student)	
Clinical skills development; patient care and commu	nication; safety; professional behaviour; teamwork; self-
motivation and legal and ethical issues; clinica	al reasoning; emergency procedures; self-reflection;
specialised modalities: mentoring	

Medical Imaging Professional Entry Practice 2 (Proficient to Entry Level Practitioner)

Clinical skills development (entry level) building on technical skills gained in previous clinical courses including patient care and communication, safety, professional behaviour, team working, self-motivation, self-directed learning and clinical reasoning; continuing professional development.

Clinical Placement Information

At the beginning of each placement the student should provide you with an abridged clinical mentor's guide which will provide you with information that is relevant to the clinical course they are undertaking. This will include:

- The expectations of the student
- An overview of what the student has been taught to date
- The objectives of the clinical course
- Performance Guidelines for the clinical report
- University contact/s

The student has a clinical workbook which they will use to record their performance and attendance. The student should ask you to fill out documentation in this workbook, including:

- Attendance record (registering the student's clinical attendance)
- Supervisor and mentor specimen signature (used to verify recorded signatures)
- Outline of competency milestones required for the placement
- Practical competency assessment forms

You will also be asked to assess the student mid-placement ('Formative Clinical Report') and at the end of each clinical placement ('Summative Clinical Report'). The student will pass this separate documentation to you on the first day of their clinical placement. A reference example of one of these reports is included in Appendix 1. These instructions may vary slightly depending on the level of student; however, the requirements will be carefully explained to the students.

Attendance

The University of South Australia Clinical Placement Unit (CPU) will allocate each student to a clinical department, in accordance with the published teaching schedule for the Bachelor of Medical Radiation Science program (Appendix II).

Students are required to attend all scheduled clinical days, subject to the 'Clinical Attendance' Policy of this program. Student hours are 8.30am - 5.00pm (7.5 hours per day), but may be adjusted to fit within departmental normal work patterns or shift work. If a student is unable to attend clinical placement due to illness they must contact the Clinical Supervisor/Mentor at the placement no later than 9.00am and email (or telephone) the Course Coordinator.

Students are required to have a lunch break each day, the duration of which is designated by the Clinical Supervisor/Mentor. Tea breaks may be given at the discretion of the Clinical Supervisor/ Mentor.

At the end of the clinical course, completed clinical placement hours will be calculated. Absences may need to be made up, by the student, at the discretion of the Course Coordinator. If time is to be made up, this will be organized by the student in liaison with the Course Coordinator the CPU is students are required to negotiate with the University of South Australia Course Coordinator and then the Clinical Supervisor/ Mentor, a suitable day for additional clinical placement time due to absent days/ times due to illness. These 'make up' hours are to be recorded on a clinical placement attendance record which will be signed by the Clinical Supervisor/ Mentor.

Clinical Placement Policies and Procedures

The University of South Australia Medical Radiation Clinical Placement policies and procedures can be found on the Clinical Placement Unit website:

Clinical Placement Unit: Policies, Forms and Documents

(https://study.unisa.edu.au/student-placements-and-internships/nursing-health-medical-sciences/cpu/)

Accident / Incident Report Procedure

If a student is involved in an accident / incident, please inform the Course Coordinator as soon as possible. There is a link to the required form on the student's course home page that needs to be completed and submitted to the course coordinator as soon as practicable. There is a requirement for the course coordinator to complete an additional online form. The content of this online form will be informed by the information included in the form completed at the clinical site.

'Passport to Placement'

The student is required to maintain their 'Passport to Placement' folder to contain updated evidence of all pre-clinical documentation (e.g. immunisation record, first aid course, National Criminal History Record Check etc.). The student is asked to carry their 'Passport to Placement' with them to each clinical site and if requested present this folder to the clinical supervisor.

Supervision Levels & Student Expectations

A set of 'Medical Imaging supervision levels and student expectations per clinical course' have been compiled to assist the Clinical Supervisor/ Mentor in the supervision and assessment of students on clinical placement.

As the student progresses through the program, she/he will gradually build and maintain clinical skills by completing both academic and clinical courses. It is, therefore, vital that the Clinical Supervisor/ Mentor is aware of the expected level of performance of a student during any clinical course and, hence, the level of supervision with which the student should be provided.

On the following pages, you will find a set of guidelines ('Medical Imaging supervision levels and student expectations per clinical course') to assist in the supervision and assessment of students. There is a set of guidelines for each clinical course/placement. The information under the headings 'Student Characteristics', 'Communication', 'Technical Aspects', 'Patient Care', 'Patient Assessment, Clinical Decision Making/ Reasoning', 'Image Critique/ Interpretation' and 'Departmental Procedures/ Policies' relate to the student's performance during a course. The information under 'Supervision level, Supervision Characteristics' is the recommended level/type of supervision required by a student participating on clinical placement. If you read the information, you will see that as the student gains more experience and clinical skills and, hence, becomes more independent, the close supervision of the student is slowly withdrawn.

It is extremely important, that the Clinical Supervisor/Mentor(s) familiarise themselves with the guidelines as they form the basis of the completion of the 'Formative' and 'Summative' Clinical Reports.

U	Supervision Level	General Student Characteristics	Communication	Technical Aspects	Patient Care	Patient Assessment, Clinical Decision Making & Reasoning	Image Critique & Interpretation	Departmental Procedures/ Policies
2 nd Year <u>Course</u> : Medical Imaging Clinical Practice 1 `Block A' <i>Entrance</i> <i>Level</i> <i>Novice</i> <i>Student</i>	Supportive Supervision Characteristics Close support and demonstration of procedures. Immediate feedback to promote confidence building. Simple, clear direction. Focus on direction for fewer tasks at a time.	Very little experience in the clinical environment to this stage. Understands the principles of privacy and confidentiality.	Basic communication skills with patients, significant others and staff. Able to communicate with patients on a simple level for example collect a patient or change a patient.	Would begin observing then move to simple examinations closely supervised. Need exposures to be set and explained. Take considerable time with all procedures.	Assist with changing and moving patients.	Simple patient assessment in terms of ability to change themselves. Simple history taking such as mobility needs.	Very limited critiquing of basic images using a system such as PACEMAN. Very tentative with image critique and interpretation.	Able to follow departmental procedures and policies. Lacks confidence in the radiographic environment.
<u>Course:</u> Medical imaging Clinical Practice 1 `Block B' <i>Primary</i> <i>Student</i>	Supportive Supervision Characteristics Close support and demonstration of procedures. Immediate feedback to promote confidence building. Simple, clear direction. Focus on direction for fewer tasks at a time.	Some experience in basic procedures. Still requiring close supervision of all examinations. Limited practice to less complex clients and patients. Thorough knowledge of radiation protection and infection control measures to a level to support safe practice.	Basic communication skills with patients, staff and significant others. Able to communicate with patients at a basic level for example collecting and changing patients or explaining simple procedures.	Lacks ease in positioning patients. Able to perform only one task at a time. Extra time required to complete tasks. Tentative regarding exposure setting.	Assist with changing and moving patients. Lacks ease in directing patients. Difficulty focusing on patient care and technical aspects simultaneously.	Reflects and discusses ways to improve their clinical practice. Simple history taking relating to performing basic radiographic examinations.	Able to identify basic errors in resultant images though may not be able to accurately identify how to correct errors. Able to identify obvious basic abnormality though may not be able to use correct medical/scientific terminology to name the abnormality.	Lacks confidence in the radiographic environment. Understands the departmental structure and patient pathway. Understands incident reporting mechanisms.

Supervision Level	General Student Characteristics	Communication	Technical Aspects	Patient Care	Patient Assessment, Clinical Decision Making & Reasoning	Image Critique & Interpretation	Departmental Procedures/ Policies
3 rd Year Supportive Supervision characteristics Course: Medical Imaging Clinical Practice 2 Intermediate Student Simple, clear directions. Care exercised with pacing of instructions to avoid confusion. Withdrawal to a slightly more distant supervision (corner of the room) is encouraged through this course as the supervisor and student gain confidence with each other.	Able to attempt all basic examinations and procedures with close supervision. Ability to assess their own level of competence and client/patient ability to decide when assistance is required.	Communication skills at a higher level with straightforward procedures and examinations being explained to patients by students.	All routine procedures on uncomplicated patient should be within student's capability. Students able to set exposure from chart but may still need assistance with adjusting factors. Extra time for examinations is still expected at this stage of development.	Able to manage and respond appropriately to simple patient care requests. Implement patient transfers with minimal disruption to patient care. Manage patient auxiliary equipment such as urinary catheter or oxygen during transfers or simple procedures.	Recognising possible patient situations and reporting concerns to supervising radiographers. Clinical decisions relating to suitability of continuing with a particular examination would still be made by the supervising radiographer though students may input into this process. Reflecting on their performance during and after examinations.	Able to identify images requiring repeating and reasons for the repeats. Offer suggestions to improve images. Abnormalities able to be identified though may not be able to name the abnormality. Critiquing images and abnormality detection requires extra time at this stage.	Confidence building in the clinical environment. Ability to follow and interpret departmental policies and procedures is increasing. Able to source information relating to policies and procedures in the clinical environment. Understanding of the structure of the clinical environment beyond their department and the role of the department in the patient journey.

U	Supervision Level	General Student Characteristics	Communication	Technical Aspects	Patient Care	Patient Assessment, Clinical Decision Making & Reasoning	Image Critique & Interpretation	Departmental Procedures/ Policies
	Collaborative	Good with basic	Improved patient	Integrating	Improved	Integrating	Critiquing all images	Understands and
	Supervision	examinations/	interaction.	knowledge of	patient	knowledge of	produced though at	implements all
4 th Year	characteristics	procedures on less	Able to explain	previous cases	interaction	previous cases with	times requiring	departmental
(First Hair)	Tailoring style of	complex	procedures to	with academic	More eye	academic	assistance to decide	policies and
Course:	supervision to	patients/clients.	patients/clients	knowledge	contact and	knowledge.	if sufficient or how	procedures.
Medical	what the student	Ability to undertake,	utilising suitable	Still needing	personalised	Coping with more	to correct more	Able to identify
Imaging	already knows.	with supervision,	language	assistance with	instructions for	than one demand	complex	procedures
Clinical	Immediate	more complex	More eye contact	exposure	the patient	at a time	examinations.	required to
Practice 3	feedback still	examinations/	and personalised	adjustment for	Able to manage	Developing strong	Able to identify and	implement
Independent	encouraged.	procedures on more	instructions for the	unusual patient	more complex	history taking skills	name common	improvements.
Student	Able to withdraw	challenging patient/	patient.	presentations.	patient	and is now able to	abnormalities in	Comfortable in the
00000000	slightly to behind	client presentations.		More aware of	presentations	act upon	images produced.	clinical
	the control panel			underlying	and auxiliary	information gained	Good use of medical	environment
	for supervision.			pathology and	equipment.	and make	and radiographic	though may still be
	Instructions are			its effect on	Able to	suggestions to	terminology.	apprehensive in
	able to be more			exposure	anticipate	improve patient	Complex	remote or unusual
	complex.			selection.	patient care	experience. Still	abnormalities may	locations such as
	Still assessing			Examinations	issues	needing assistance	be identified but not	theatre or wards.
	suitability of			are still	associated with	in this area at this	named at this	
	patients/clients for			requiring extra	radiographic	stage.	stage.	
	the student's level			time at this	examinations			
	of comfort with the			stage.	and procedures.			
	procedure/							
	examination.							
	At this stage the							
	student is							
	encouraged to be							
	actively involved in							
	this process.							

U	Supervision Level	General Student Characteristics	Communication	Technical Aspects	Patient Care	Patient Assessment, Clinical Decision Making & Reasoning	Image Critique & Interpretation	Departmental Procedures/ Policies
	Collaborative	The student would	Improved patient	Integrating	Improved	Integrating	Critiquing all images	Greater level of
	Supervision	be expected to	interaction.	knowledge of	patient	knowledge of	and identifying	comfort in the
4 th Year	characteristics	attempt all	More eye contact	previous cases	interaction.	previous cases with	abnormalities where	clinical
(First Half)	Tailoring style of	examinations/	and personalised	with academic	More eye	academic	appropriate.	department and
_	supervision to what the	procedures with	instructions for the	knowledge.	contact and	knowledge.	Gaining confidence	remote or
<u>Course:</u>	student already knows.	increasing	patient.	Confidence	personalised	Clinical history	in naming of	unusual
Medical	Immediate feedback still	complexity and	Able to answer	increasing with	instructions for	taking skills	abnormalities and	locations.
Imaging	encouraged.	challenges.	basic patient	exposure	the patient.	improving and able	pathologies and the	Understand the
Clinical	Able to withdraw slightly	The student is	questions.	selection	Able to manage	to anticipate basic	use of medical	role of the
Practice 4 and	to behind the control	able to structure	Provide	Able to adjust	more complex	alterations to	terminology.	radiographer in
Medical	panel for supervision.	their examination	information at a	exposures with	patient	technique as a		the
Imaging	Instructions are able to	In a logical	basic level to	greater	presentations	result of information		multidisciplinary
Clinical	De more complex.	sequence, though	patients.	accuracy for	and auxiliary			team.
Dractica 4	of patients/clients for	accietance at		pationt	Able to	suggestions of		
Plactice 4	the student's level of	timos with this		conditions	ADIE IU	tochniquo roquirod		
Autonomous	comfort with the	tack		Contractions.	anticipate	for more		
Student	procedure/ examination	Lask.		more than one		straightforward		
Student	At this stage the student			demand at a	associated with	evaminations		
	is encouraged to be			time and	radiographic	Still requiring		
	actively involved in this			heainning to	examinations	assistance for more		
	process.			prioritise (with	and	complex situations.		
	Supervisor still			supervisor	procedures.			
	prioritizing student's			input) their	Beginning to			
	workload though at this			work demands.	develop a			
	stage the student is			Anticipates	patient-centred			
	encouraged to take a			potential	approach to			
	greater role in this			problems so	their			
	process.			mistakes are	examinations.			
	As the course			fewer.				
	progresses the			Aware of				
	supervision moves to a			patient				
	little more remote			advocacy issues				
	though still within			associated with				
	'geographical area' of			radiographic				
	the examination room.			examinations.				
				Time for				
				examinations is				
				decreasing.				

M	Supervision Level	General Student Characteristics	Communication	Technical Aspects	Patient Care	Patient Assessment, Clinical Decision Making & Reasoning	Image Critique & Interpretation	Departmental Procedures/ Policies
4 th Year (Second Half) Course: Medical Imaging Professional Entry Practice 1 and Medical Imaging Honours Professional Entry Practice 1 <i>Proficient</i> <i>Student</i>	Consultative Supervision characteristics Supervisor available for consultation by student as support still needed. Supervision would still be provided for these students though it is now provided in a remote manner. Supervisor encouraging the student to lead the examination process. Supervisor consulted at the beginning of the examination to ensure comfort on both sides with patient and examination/ procedure. Gradual changing of roles across this course from supervisor initiated to student initiated discussion and decisions.	Students are able to complete all examinations with the ability to set priorities and solve problems as they arise. At this stage they would be working independently with supervision available remotely as required.	Comfortable with communicating with patients and answering their questions. Beginning to converse with other health professionals in relation to required imaging procedures and benefits of differing techniques and modalities. Able to use Evidence Based Practice to support clinical decisions.	Problems are anticipated and solved as they arise. Able to prioritise workflow within a defined area of practice. Assistance still required with organising workflow across areas of practice. Developing the ability to advocate on the patient's behalf with respect to radiographic examinations. Able to complete examinations in a timelier manner.	Problems are anticipated and solved as they arise Comfortable with communicating with patients and answering their questions. Adapting where necessary to the patient's values, customs, spiritual beliefs and practices. Adopting a patient- centred approach to radiographic procedures and examinations.	Reflecting critically on their clinical performance. Collecting complex patient histories to supplement information supplied and able to act upon this information in an appropriate manner. Able to solve most problems relating to patient situations as they arise. Seeking help from supervisors as required but encouraged to solve their own problems where possible.	Critiquing all images and offering suggestions for improvement. Able to identify more accurately when repeat images are required based on clinical information obtained and other considerations. Identifying abnormalities and pathologies within acceptable accuracy levels. Using appropriate medical terminology at all times.	Comfortable in the clinical environment. Able to suggest possible improvements to basic procedures. Understands the role of the radiology department in the multidisciplinary team. Developing mentoring relationships with less experienced students.

U	Supervision Level	General Student Characteristics	Communication	Technical aspects	Patient Care	Patient assessment, clinical decision making/ reasoning	Image Critique/ interpretation	Departmental procedures/ policies
	Consultative	Students are able to	Competent in	More confident in	Able to anticipate	Competent in	Critiguing and	Confident in the
	Supervision	complete all	discussing issues	their own ability to	most situations	gathering patient	offering ways to	clinical
4 th Year	characteristics	examinations within	with patients or their	modify protocols in	where assistance	history and	improve all	environment.
(Second	Supervisor available	scope of practice,	significant others	relation to patient	is required and	adapting	images.	Able to discuss
Half)	for consultation by	with the ability to set	relating to	history/pathology.	take the leading	techniques.	Seeking	and implement
	student as support	priorities and solve	radiographic	Able to organise	role in most	Anticipating issues	assistance as and	policy changes
Course:	still needed.	problems as they	examinations.	workflow across	examinations	based on	when required to	being suggested,
Medical	Supervision would	arise.	Able to answer	areas of practice.	regardless of the	information	identify more	within the clinical
Imaging	still be provided for	Further they are able	patient's questions	Able to competently	patient	gathered.	unusual	environment,
Professional	these students	to predict and	and provide	and efficiently	presentation.	Able to solve	abnormalities and	based on evidence
entry	though it is now	accommodate	information to them	perform complex	Adapting to the	many of the	pathologies.	of best practice.
Practice 2	provided in a	possible difficulties	in a manner	procedures on most	patient	clinical problems	Able to discuss all	Able to identify
_	remote manner.	and challenges in the	appropriate to the	patients or clients.	presentations in	as they arise and	images with	best practice
Entry Level	Students to seek	workflow and patient/	patient.	Able to assess their	most situations	adapt techniques	referring clinicians	within the clinical
Practitioner	assistance from supervisor. Supervisor may initiate 'verification' of students and their decision- making process. Supervisor involved in decision making process but gradually withdrawing their input across the course.	client presentations. Students prioritising their workload in accordance with guidelines operating within current clinical placement.	Able to communicate with other members of the Multidisciplinary team in a professional and informed manner. Communicating with all levels of staff as required including at a level associated with decisions relating to imaging procedures and examinations. Able to support ideas with evidence from the literature.	own strengths and request assistance as required. Take responsibility for planning entire examination/ procedure Planning workload within an area or room Performing examinations/ procedures in a time efficient and organised manner. Adopt a patient- centred approach to their examinations. Able to advocate on the patient's behalf with respect to radiographic	and ensuring care is delivered to achieve best practice. Able to empathise with patients. Answering patient's questions and provide information to them in a manner appropriate to the patient. Adopting a patient-centred approach to examinations.	to situations encountered. They are able to critically reflect on and in their practice to improve their clinical performance. Able to accurately assess the patient's ability to continue with the examination. Able to discuss decisions with members of the Multidisciplinary team in a professional and appropriate manner.	in a professional manner.	environment and use this to develop their own practice. Further assisting less experienced students within the clinical environment.

Clinical Reports

The student should provide the clinical supervisors with the assessment forms at the beginning of the clinical placement.

For each clinical course, the student will be assessed using both a 'Formative' and 'Summative' Clinical Report. The next section contains information relating to the Clinical Reports and an example of the form is included in Appendix 1. The form included is an example only as each Clinical Report form will vary slightly depending on the expectations associated with the particular clinical course being assessed. The report forms have been informed and developed in line with the supervision levels and student expectations documentation included in the previous section.

Formative Clinical Report Instructions

Mid-way through each long placement the Clinical Supervisor or Delegated Supervisor will be responsible for completing the 'Formative' report as a performance indicator for the student. Please refer to the previous section (supervision levels and student expectations) to assist you with completing the formative section of the Clinical Practice Report. This Formative Report is an important assessment of student progress and provides an opportunity to identify learning needs and goals for the remainder of the placement. This mid-placement assessment should provide the foundation for the end of placement 'Summative' Report and should NOT be omitted without prior consultation with the Course Coordinator. It is expected that this 'Formative' Report will be discussed with the student, highlighting their strengths and weaknesses and used as a means to assist the student to continue to improve their clinical skills and attitudes.

Summative Clinical Report Instructions

At the end of each Clinical placement, the Clinical Supervisor or Delegated Supervisor will be responsible for completing the Summative Clinical Report, which will be based on the student's performance during that placement and will contribute to the final mark.

'Safe Practice and Duty of Care' and 'Professional and Ethical Conduct'

It is an expectation of the clinical sites and the university that students follow safe practices whilst completing their clinical experience and students who breach Safety and/or Professional Conduct will be excluded from completing the placement.

Safe Practice and Duty of Care:

The student must demonstrate safe practice in the clinical setting.

Safe student practice includes, but is not limited to, at all times demonstrating:

• An awareness of manual handling principles in patient and staff safety

- The safe application of all equipment
- Responsibility for patient and personal safety
- Behaviours that do not put other persons in the workplace at any risk
 - Wearing a current 'Luxel' in accordance with the Medical Radiation 'Luxel' policy
- Appropriate infection control practices
- Application of the ALARA principle

Professional and Ethical Conduct:

The student must behave in a professional and ethical manner, according to the Medical Radiation Practice Board of Australia Code of Conduct and Ethics, the University of South Australia Clinical Policies as well as the Australian Society of Medical Imaging and Radiation Therapy code of conduct and ethics, throughout the clinical placement.

Professional and ethical student conduct includes, but is not limited to, at all times:

- Clearly wearing the student identification badge
- Being punctual in accordance with the Medical Radiation attendance policy
- Maintaining confidentiality of staff and patient information
- Maintaining personal hygiene and dress as stated in the Medical Radiation 'Uniform' policy
- Behaving in a professional manner to colleagues, supervisors, patients and their families

If a student is deemed unsafe or unprofessional at any time during clinical placement, he/she may be removed from the clinical placement, subject to a review to assess her/his suitability to participate in the course, as per the 'Assessment Policies and Procedures Manual', which can be found at:

https://i.unisa.edu.au/policies-and-procedures/codes/assessment-policies/

-	Autonomous to Proficient Student
	UniSA Allied Health & Human Performance
	Bachelor of Medical Radiation Science
	SUMMATIVE CLINICAL REPORT - 2022
Medio	cal Imaging Professional Entry Practice 1 and Honours Medical Imaging Professional Entry Practice 1
Studer	nt Name: Study Period: 5
Placen	nent Location:
GRAD	UATE QUALITIES (GQ) ASSESSED BY THIS SUMMATIVE CLINICAL REPORT:
GQ1	Your body of knowledge will be expanded in the clinical environment, with particular regard to more complex radiographic examinations.
GQ3	In the clinical environment you will continually develop problem solving skills to deal with a variety of situations that arise.
GQ4	You will be able to further develop effective team working skills within the clinical environment.
GQ5	You will be acting in an ethical and socially responsible manner whilst on clinical placement and in your dealings with the patients and the public.
GQ6	rou will demonstrate effective communication all with members of the professional healthcare team, patients and the public. You will be able to translate written instruction to clinical situations.
GQ7	You will demonstrate an awareness of cultural diversities encountered within the clinical setting.
SUMI	MATIVE REPORT INSTRUCTIONS:
At the summ	end of each clinical placement, the clinical supervisor or delegate will be responsible for completing the ative clinical report, based on the student's performance during the placement.
To con	nplete the summative report the clinical supervisor should:
1 Ci pi	rcle satisfactory or unsatisfactory for the summative sections of safe practice and duty of care as well as rofessional and ethical conduct, making comments where appropriate.
2 Ti	ck the most appropriate category that describes the student's work. No mark is required
3 In	clude their name, signature and date along with any additional comments in the section provided.
4 Di	iscuss the contents of this report with the student.
STUD	ENT'S RESPONSIBILITIES:
• It by	is the responsibility of the student to ensure that the summative clinical report is submitted to the course coordinator the due date as indicated in the course outline.
• Tr	ne student is encouraged to comment, in the space provided at the end of the report.
• Th	The report must be signed by the student.
PERF(UNIVIANUE QUIDELINES:
Profes	sional Entry Practice 1 and Professional Entry Practice 1.
Please	use them to help you when completing the formative and summative clinical reports.
Profic	ient student
•	Able to complete all examinations and procedures with increasing complexity.
•	Able to set priorities within their individual workload supported with reasons.
Comm	Ability to solve problems, relating to their own clinical practice, as they arise.
•	Confident in a variety of radiographic environments
•	High level communication skills appropriate to the individual patient
•	Has a patient centred approach to their practice
•	Reflects and discusses the examination, in a professional manner, with a variety of health professionals utilising evidence based practice
1	University of South Australia Clinical Report

U

Autonomous to Proficient Student Level

Marking Process

The report for this course requires you to select the field that most appropriately describes the student's work. You are then asked to type comments in the appropriate area to support the student and identify areas that you think could be improved or enhanced.

SAFE PRACTICE, DUTY OF CARE AND PROFESSIONAL AND ETHICAL CONDUCT:

Professional and ethical conduct as well as safe practice and duty of care are essential components of clinical practice. Please circle either satisfactory or unsatisfactory for these elements.

A satisfactory grade in all of these elements is essential to pass this course.

Safe Practice and Duty of Care:

The student must demonstrate safe practice and duty of care in the clinical setting.

Safe Practice will be evidenced by, but not limited to, the student who at all times:

- · Demonstrates awareness of manual handling principles in patient and staff safety
- Demonstrates the safe application of all equipment
- Is responsible for patient and personal safety
- Demonstrates awareness of the ALARA principle
- Demonstrates an awareness of radiation protection practices for patients, staff and others
- Does not put other persons in the workplace at risk
- Demonstrates an awareness of infection control practices

Satisfactory

Unsatisfactory

Comment if appropriate:

Professional and Ethical Conduct:

The student must behave in a professional manner according to the Medical Radiation Practice Board of Australia Code of Conduct (2014) as well as the University of South Australia Clinical Placement Policy (2013), throughout the clinical placement.

Professional conduct is evidenced by, but not limited to, the student who at all times:

- Wears the student identification badge
- Wears a current 'Luxel' at all times in accordance with the UniSA Medical Radiation 'Luxel' policy
- Is punctual at all times in accordance with the Medical Radiation attendance policy
- Maintains confidentiality of patient, site, and staff information
- Maintains personal hygiene and dress as stated in the UniSA Medical Radiation Uniform policy
- Behaves in a professional manner to colleagues, supervisors, and patients and their families.

Satisfactory

Unsatisfactory

Comment if appropriate:

2

University of South Australia Clinical Report

U

Autonomous to Proficient Student Level

Domain guidance	
	Field and Comments
comments	
Communication	Well above Above expected level Below expected level l
Comfortable with	Comments:
communicating with	
their questions	Positive aspects:
Reginning to converse with	
other health professionals	
in relation to required	
imaging procedures and	
benefits of differing	Areas for future development:
techniques and modalities.	
Able to use Evidence	
Based Practice to	
support clinical	
decisions.	
Technical Aspects	Well above Above expected At expected Below expected Well below
Comfortable with	
equipment, technology and	Comments:
patient presentations	Positive aspects:
Able to produce accurate	
radiographs	
Problems are anticipated	
and solved as they arise.	
Able to prioritise workflow	
within a defined area of	
practice.	
Assistance still required	Areas for future development:
across areas of practice	
Developing the shility to	
advocate on the natient's	
behalf with respect to	
radiographic examinations.	
Able to complete	
examinations in a	
timelier manner.	
Patient Care	Well above Above expected At expected Below expected Well below
Problems are anticipated	Vexpected level Vexpected level Vexpected level
and solved as they arise	Comments:
Comfortable with	Positive aspects:
communicating with	
patients and answering	
their questions.	
Adapting where necessary	
to the patient's values,	Areas for future development:
customs, spiritual beliefs	
and practices.	
Adopting a patient	
radiographic	
radiographic procedures and	
radiographic procedures and examinations.	

Assessment, clinical decision making/reasoning Reflecting critically on their clinical performance. Collecting complex patient histories to supplement information supplied and able to act upon this information in an appropriate manner. Able to solve most problems relating to patient situations as they arise. Seeking help from supervisors as required but encouraged to solve their own problems where possible. Image critique/ interpretation Critiquing all images and offering suggestions for improvement. Able to identify more accurately when repeat images are required based on clinical information obtained and other considerations. Identifying abnormalities and pathologies within acceptable accuracy levels. Using appropriate medical terminology at all times.	expected level mments: sitive aspects: eas for future d well above expected level mments: sitive aspects:	levelopment:		expected level	Below e	xpected	Vell below
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olicy/procedures	mments			ievei	<u> </u>	ievei	-expected level
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uggest possible	sitive aspects:						
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ne multidiscipiinary team.							
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ess experienced							
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S.			Autor	nomoust	o Profici	ient Stud	lent Level
Motivation and organisation Seeks new information and knowledge Takes an active role in assisting patients and staff Responds appropriately to constructive criticism Maintains a neat and orderly work area Demonstrates a positive work ethic	Well above expected level Comments: Positive aspects: Areas for future devel	Above expected level	At expect	ed or B4	elow expect	ted vel	Well below xpected level
OVERALL CLINICAL SUP	ERVISOR'S SUMMATIN	/E COMMENT	s				
I believe this Clinical Supervisor Name	student has met all crite	ria to be deem	ed to be pract	ticing at a Date:	proficient	t student k	evel.
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Appendix II Bachelor of Medical Radiation Science (Medical Imaging) Clinical Grid 202

2023 (MI) Non-Honours Clinical Grid

week	1	2	3	4	5	6	5 7	8	9	10	11	12	13	14	15	16	17	18	19 2	0	21 2	2 2	3 2	4 2	5 26	27	2	8 2	9 3	0 3:	32	2 33	34	35 3	36 3	7 38	39	40	41	42	43	44	45	46	47	48 4	49 50	51 52
	2	9	16	23	30	6	13	20	27	6	13	20	27	3	10	17	24	1	8 1	5	22 2	9	5 1	2 1	9 26	3	1	0 1	7 2	4 31	L 7	7 14	21	28	4 1	1 18	25	2	9	16	23	30	6	13 7	20	27	4 1	1 18 25
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KEY:

Shared academic course		Regular University breaks	Clinical course (Placement)	*	One hour CP1 workshop per week
Discipline specific academic course		Exam period	Pre-clinical workshop		