



Introduction

Welcome

Dear breast sonography students,

I am Sandy Maranna and I will be coordinating this course. Breast imaging plays an important role in women's health and this course is designed to provide comprehensive information in the field. Students should access this course outline, the study guide & online resources. All textbooks for this course are available as e-books via the learn-online site. The course has a cohort of Masters of Medical sonography students as well. This should allow for a good mix of experience and expertise. Expectations and assessments from the Master's cohort will vary. This will be explained in the learn-online site as we progress into the semester.

For ICBR students, it is a co-requisite to be in a training position. There will be an expectation to submit clinical placement details in relation to training prior to census date of March 31, in order to continue in the course. Along with assessment requirements, students must submit logbooks to pass the course, details of which are in the later sections of this document. Masters students are also expected to be scanning breasts for the duration of the study and will be expected to submit a logbook (fewer scans than ICBR).

Based on past student feedback, I will be scheduling regular drop-in zoom or online chat sessions across various days and times. Details will be on the learn-online site. Check the course calendar at the end of this course information brochure regarding the due dates for the graded assignments. Please read this Course information and the Study guide carefully. There are a number of important due dates to note. Please check the learn-online resources and the online discussion board regularly as well. The assessments are broken down into various parts to allow for a self-paced approach to develop an all-rounded concept for clinical imaging

You should also ensure that the contact details listed for you on UniSA are accurate so we can contact you during the study period if required. Please note that communication with students during this course will primarily be via the course online discussion and your UniSA student email address. I encourage you to actively participate in the online discussion.

I am here to help you succeed, so don't hesitate to contact me if you are having any problems with this course. Do not hesitate to contact me if you have any personal issues which may impact upon your studies or completion of assignments/request for extensions etc, I will only be able to help you if you approach me. To request for an extension, you have to use the link provided in the course site. Any extension for more than one week has to be accompanied with relevant documentation. There will be marks deducted for late submissions without extensions. Any significant instance of academic misconduct in assessments will be forwarded to the academic integrity officer for review.

I teach at University part-time and I scan part-time. So please be assured that I will get back to your queries in a reasonable amount of time.

Happy studying!
Sandy

Academic Work Definitions

External mode includes online, distance education, industry placement or directed research. Virtual classrooms are deemed to be an external mode of delivery. External mode does not normally include a face to face component, however some courses offered in external mode may require a small component of on-campus activity, or practical sessions.

The expectations of your activity and preparation for each course will be aligned to the activity being undertaken. For example, if you are studying externally and there are virtual lectures, your preparation would be as listed under the lecture section of this guide.

You may also be supported through online facilitation, with preparation required, and other learning activities provided in your course, that will each have specific preparation requirements for you. These requirements should be set out in individual course guides.

Peer Interaction is usually included in UniSA courses in both external and internal modes of delivery and is considered a critical element of the learning process that may involve activities, projects, discussion forums, presentations, practicals, workshops.

Online facilitation

Student information

Online courses generally require students to independently read, view and/or work through all required materials, including pre-recorded presentations that have been produced and provided to facilitate this form of learning.

Independent online learning is supported by Online Facilitators who supplement online teaching resources by facilitating, monitoring and moderating online forums; answering student queries via virtual office hours or help desks, online dialogue and/or phone conversations, providing formative feedback on your work or explaining comments and marking of your prior work.

Students are expected to be familiar with all relevant course content, including materials provided and assessments, and engage appropriately with facilitators within the timeframes provided.

Course Teaching Staff

Course Coordinator:	Mrs Sandy Maranna
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Staff Home Page:	people.unisa.edu.au/Sandy.Maranna

* Please refer to your Course homepage for the most up to date list of course teaching staff.

Contact Details

Course Overview

Prerequisite(s)

Individual Compulsory Courses

RADY 5030 Ultrasound Physics and Instrumentation

Prerequisite Comments

This course can be completed alongside RADY 5030 to fit with a study plan

Corequisite(s)

Corequisite Comments

Student must be involved in performing diagnostic breast ultrasound examinations, including interventional procedures.

Course Aim

Enable the student to acquire the specific in-depth knowledge and develop the skills required to perform practical procedures in breast ultrasound

Course Objectives

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

CO1. Detail the anatomy, physiology and pathology of the breast with specific reference to ultrasound.

CO2. Relate the role of ultrasound in the diagnosis of breast pathology to other diagnostic tests.

CO3. Demonstrate a comprehensive and advanced knowledge of ultrasound equipment, emerging technologies and the quality management of equipment and diagnostic images.

CO4. Demonstrate a comprehensive and advanced knowledge of breast and axillary scanning techniques.

CO5. Correlate mammographic and breast ultrasound images.

CO6. Discuss the moral and ethical considerations involved in breast ultrasound.

CO7. Relate the role of other imaging modalities such as MRI to breast sonography including emerging sonographic techniques.

Upon completion of this course, students will have achieved the following combination of Graduate Qualities and Course Objectives:

Graduate Qualities being assessed through the course							
	GQ1	GQ2	GQ3	GQ4	GQ5	GQ6	GQ7
CO1	•	•	•	•	•	•	
CO2	•	•	•	•	•	•	
CO3	•	•	•	•	•	•	
CO4	•	•	•	•	•	•	
CO5	•	•	•	•	•	•	
CO6	•	•	•	•	•	•	
CO7	•	•					

Graduate Qualities

A graduate of UniSA:

GQ1. operates effectively with and upon a body of knowledge of sufficient depth to begin professional practice

GQ2. is prepared for life-long learning in pursuit of personal development and excellence in professional practice

GQ3. is an effective problem solver, capable of applying logical, critical, and creative thinking to a range of problems

GQ4. can work both autonomously and collaboratively as a professional

GQ5. is committed to ethical action and social responsibility as a professional and citizen

GQ6. communicates effectively in professional practice and as a member of the community

GQ7. demonstrates international perspectives as a professional and as a citizen

Course Content

Breast embryology, anatomy, physiology, pathology and sonographic appearances; male breast; role of breast ultrasound in diagnosis; imaging of breast prostheses; interventional techniques; artefacts; image optimisation; breast and axillary scanning techniques, including appropriate measurements and advanced techniques; communication skills – moral and ethical considerations; mammographic/ultrasound image correlation, basic MRI techniques and image appreciation and emerging advances in sonographic techniques.

Teaching and Learning Arrangements

External

13 weeks

Unit Value

4.5 units

Student recording of learning activities

Students must seek permission prior to recording any UniSA learning activity. See [A-56 Policy Student recording of learning activities](https://i.unisa.edu.au/siteassets/policies-and-procedures/docs/academic/a56_student-recording-of-learning-activities.pdf) (https://i.unisa.edu.au/siteassets/policies-and-procedures/docs/academic/a56_student-recording-of-learning-activities.pdf)

Breaches of this Policy contravene the principles of academic integrity, and attract the penalties provided in the [Academic Integrity Procedure](https://i.unisa.edu.au/policies-and-procedures/university-policies/) (https://i.unisa.edu.au/policies-and-procedures/university-policies/).

Further Course Information

Students are required to source their own training position for practical scanning. Clinical placement details have to be provided to the course coordinator by filling the clinical placement form on the learnonline site. **Students are required to send in their completed practical assessment log book within six months of completion of the theoretical portion of the course.**

Learning Resources

Textbook(s)

You will need continual access to the following text(s) to complete this course. Where possible the Library will make the book available for student use. Please check the Library catalogue before purchasing the book(s). The Library will always seek to purchase resources that allow an unlimited number of concurrent users, however availability is dependent on license arrangements with book publishers and platforms. <http://www.library.unisa.edu.au>

Stavros, A. Thomas (2004). *Breast ultrasound* (1st edn). Lippincott Williams & Wilkins .

de Paredes, Ellen Shaw (2007). *Atlas of mammography* (3rd edn). Lippincott Williams & Wilkins.

Reference(s)

Some of the e-books available via the UniSA library including the core text books, are as follows:

Breast Imaging review: A quick guide to essential diagnoses. Fundaro, Mandava and Shah 2010

Breast Imaging - The Requisites Ikeda 2010

Rumack: Diagnostic Ultrasound 2010

You will also be provided a comprehensive choice of e-readings on the learnonline site

learnonline course site

All course related materials are available on your learnonline course site which you will be able to access from the 'my Current Studies' section in myUniSA (<https://my.unisa.edu.au>).

Access to Previous Courses

You will have access to your previous course sites for a period of 4 years. After this time, the course sites will be archived and will be unavailable.

Note: Course readings provided via the University Library are only made available to current students and staff due to licensing and copyright restrictions. Students may download their course readings while they are enrolled in the course for their personal research purposes only.

Assessment

Academic Integrity

Academic integrity is the foundation of university life and is fundamental to the reputation of UniSA and its staff and students. Academic integrity means a commitment by all staff and students to act with honesty, trustworthiness, fairness, respect and responsibility in all academic work.

An important part of practising integrity in academic work is showing respect for other people's ideas and being honest about how they have contributed to your work. This means taking care not to represent the work of others as your own. Using another person's work without proper acknowledgement is considered Academic Misconduct, and the University takes this very seriously.

The University of South Australia expects students to demonstrate the highest standards of academic integrity so that its qualifications are earned honestly and are trusted and valued by its students and their employers. To ensure this happens, the University has policies and procedures in place to promote academic integrity and manage academic misconduct. For example, work submitted electronically by students for assessment will be examined for copied and un-referenced text using the text comparison software Turnitin <http://www.turnitin.com>.

It is an offence for any person or company to provide academic cheating services to students of Australian universities, irrespective of whether the service is provided by an Australian or overseas operator (see [Tertiary Education Quality and Standards Agency Amendment \(Prohibiting Academic Cheating Services\) Bill 2019](https://www.legislation.gov.au/Details/C2020A00078) - <https://www.legislation.gov.au/Details/C2020A00078>). "Academic cheating services" includes providing or undertaking work for students, where that work forms a substantial part of an assessment task.

More information about academic integrity and what constitutes academic misconduct can be found in the [Academic Integrity Policy and Procedure](https://i.unisa.edu.au/policies-and-procedures/university-policies/academic/ab-69) (<https://i.unisa.edu.au/policies-and-procedures/university-policies/academic/ab-69>).

To learn more on academic integrity and how to avoid academic misconduct, please refer to the Academic Integrity Module: <https://lo.unisa.edu.au/mod/book/view.php?id=252142>

Important information about all assessment

All students must adhere to the University of South Australia's [procedures about assessment](http://i.unisa.edu.au/policies-and-procedures/codes/assessment-policies/): <http://i.unisa.edu.au/policies-and-procedures/codes/assessment-policies/>.

Assessment Details

Details of assessment submission and return are listed under each assessment task. Assessment tasks will be returned to you within 15 working days of submission.

Cover sheets

A cover sheet is not required for assessment tasks submitted via learnonline, as the system automatically generates one.

If the Course Coordinator allows submissions in hard copy format, you will be required to attach an Assignment Cover Sheet which is available on the learnonline student help (<https://lo.unisa.edu.au/mod/book/view.php?id=1843&chapterid=567>) and in myUniSA.

Assessment Descriptions								
Title	Team work	Length	Duration	Sub-weighting	Due date (Adelaide Time)	Submit via	Re-Submission	Re-Marking
Part A -SIMITICS	No	-	60 mins	20%	20 Mar 2023, 11:59 PM	learnonline	No	No
Part B -Q&A	No	800 words	-	30%	24 Apr 2023, 11:59 PM	learnonline	No	No
Part C -Bounce back activity	No	500 words	-	25%	8 May 2023, 11:59 PM	learnonline	No	No
Part D - presentation	No	-	10 mins	25%	5 Jun 2023, 11:59 PM	learnonline	No	No
Assessment 1								
40% of Course Total				Objectives being assessed: CO1, CO2, CO3, CO4, CO5, CO6, CO7				
Single								
Title	Team work	Length	Duration	Due date (Adelaide Time)	Submit via	Re-Submission	Re-Marking	

Further information on re-marking and re-submission is available in the academic policy, AB-68 P4 Re-marking and Re-submission Procedure

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Details will be made available in the learn-online resources.

This will be an on-going activity throughout the semester with 45% weighting, helping students to develop various skills to meet learning objectives.

An active learn-online discussion to specific topics is an expectation to complete this activity.

Please note that the rubrics and the expected criteria vary slightly between the IMSO and the ICBR cohorts to meet learning objectives

Details of specific sub-topics will be made available on the course site.

Assessment 2

Feedback proformas

The feedback proforma is available on your course site.

Single (Continuous) 25% of Course Total Objectives being assessed:CO1, CO2, CO3, CO4, CO5, CO6, CO7

Title	Team work	Length	Duration	Sub-weighting	Due date (Adelaide Time)	Submit via	Re-Submission	Re-Marking
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Additional assessment requirements

Students must pass each assessment component satisfactorily in order to obtain a pass for this course.

Students will be required to pass practical assessments and will be required to keep a log book to record the number and quality of breast ultrasound examinations which have been performed. This should be signed by their supervising sonographer/radiologist. Number of **satisfactory** examinations required for log book to pass:

Further information on re-marking and re-submission is available in the academic policy, AB-68 P4 Re-marking and Re-submission Procedure

- 50 x targeted scans
- 5 x prosthesis scans
- 10 x interventional studies

Online quizzes

These practical examinations should be completed within 6 months of completion of the theoretical portion of the course. A practical assessment proforma specifically designed for breast ultrasound studies will be circulated at the start of the semester.

Quiz 1 questions covering modules 1 to 4
Quiz 2 questions covering modules 5 to 7
Quiz 3 questions covering modules 8 to 10

Each quiz consists of 20 multiple choice questions. Each question is worth 1 mark, no negative marking. Time limit to complete each quiz is 40 minutes, after which the quiz will be closed. Please make sure you have viewed the module content before attempting these questions.

Students will receive a grade for individual assessment items and a final grade at the end of the study period. More details of the assignment are found in the learn-online resources.

Grades will be entered only after logbooks have been submitted.

Completion of logbook is a mandatory requirement for completing the course.

Information about grade notations is available at: <http://www.unisanet.unisa.edu.au/extracourseinformation/assess.asp>

Assessment 3

Multiple	35% of Course Total	Objectives being assessed:CO1, CO2, CO3, CO4, CO5, CO6, CO7
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Penalties for late submission

Late submission of assessment tasks policy

Late submission of assessment tasks in this course will result in a penalty unless an extension has been granted or the student can provide evidence of unexpected or exceptional circumstances.

The penalty for late submissions will be:

1. a deduction of 10% of the available marks, for each day (or part thereof) that the assignment is late up to a maximum of 5 days.

Thus, for an assessment item that is one day late the maximum mark available will be 90%, and for two days late 80% etc. By way of example, if a student achieved a mark of 65% for an assignment that was submitted one day late, their adjusted mark would be 65% of a total available mark of 90%, so the mark would be adjusted to 58.5%.

2. assignments which are more than 5 days late may not be assessed and will be assigned a zero grade inclusive of non-graded pass work. Whether or not an assignment that is more than 5 days late will be assessed will be at the discretion of the Course Coordinator.

Rationale for Late submission of assessment tasks policy

If unexpected or exceptional circumstances occur that result in late submission, or if an extension has been granted for an assessment item, there will be no penalty.

However, where no extension has been granted, and there were no unexpected or exceptional circumstances that resulted in late submission a penalty will be applied. This is to prevent students from seeking to obtain an unfair advantage, compared with their peers, by having more time to complete an assessment item.

It was considered that if a student were to work on an assessment item for one day they might be able to improve their mark by 10%, so a 10% penalty has been applied to offset any such advantage that might be gained.

The 10% deduction will be from the available mark rather than the achieved mark to ensure equity between students. By way of example:

- 1) If a student achieved a mark of 77 (Distinction), but the assessment item was submitted two days late, their grade becomes 77% of 80 = 61.6 which is a true 20% reduction.

If the 20% deduction were applied to the achieved mark this would be $77\% - 20\% = 57\%$, which would actually represent a 26% reduction of their achieved grade.

- 2) If a student achieves a mark of 54 (P2) and is 2 days late in submitting the assessment item, their grade becomes 54% of 80 = 43.2 which is a true 20% reduction. If the 20% deduction were applied to the achieved mark this would be $54\% - 20\% = 34\%$ which represents an actual 37% reduction of their achieved grade.

Thus, if the deduction were applied to the achieved mark both students would experience a different real deduction depending on the actual mark they achieved. Thus, in the interest of student equity the deduction will be taken from the available mark.

Exam Arrangements

This course does not have an exam

Deferred Assessment or Examination

Deferred assessment or examination is available for the course.

Supplementary Assessment

Supplementary assessment or examination offers students an opportunity to gain a supplementary pass (SP) and is available to all students under specific conditions unless supplementary assessment or examination has not been approved for the course.

Specific conditions and further information is available in the [Variations to Assessment Procedure](http://i.unisa.edu.au/policies-and-procedures/codes/assessment-policies/). <http://i.unisa.edu.au/policies-and-procedures/codes/assessment-policies/>

Special Consideration

Special consideration is available for this course. Note: Special consideration cannot be granted for a deferred assessment or examination, or a supplementary assessment or examination. APPM 7.7.6

Variations to assessment tasks

Details for which variation may be considered are discussed in the [Variations to Assessment Procedure](http://i.unisa.edu.au/policies-and-procedures/codes/assessment-policies/) (<http://i.unisa.edu.au/policies-and-procedures/codes/assessment-policies/>). Variation to assessment in unexpected or exceptional circumstances should be discussed with your course coordinator as soon as possible.

More information about variation to assessment is available in the [Variations to Assessment Procedure](http://i.unisa.edu.au/policies-and-procedures/codes/assessment-policies/) (<http://i.unisa.edu.au/policies-and-procedures/codes/assessment-policies/>).

Students with disabilities or medical conditions please refer to **Students with disabilities or medical conditions**.

Students with disabilities or medical conditions

Students with disabilities or medical conditions or students who are carers of a person with a disability may be entitled to a variation or modification to standard assessment arrangements. See the [Variations to Assessment Procedure](http://i.unisa.edu.au/policies-and-procedures/codes/assessment-policies/) at: <http://i.unisa.edu.au/policies-and-procedures/codes/assessment-policies/> and Policy C7 [Students with Disability](https://i.unisa.edu.au/policies-and-procedures/university-policies/corporate/c-7/) at: <https://i.unisa.edu.au/policies-and-procedures/university-policies/corporate/c-7/>

Students who require variations or modifications to standard assessment arrangements must first register for an Access Plan with the UniSA Access & Inclusion Service. It is important to contact the Access & Inclusion service early to ensure that appropriate support can be implemented or arranged in a timely manner.

Students who wish to apply for an Access Plan must book an appointment with a UniSA Access & Inclusion Advisor by contacting Campus Central or via the Online Booking System in the Student Portal. For more information about Access Plans please visit: <https://i.unisa.edu.au/students/student-support-services/access-inclusion/>

Once an Access Plan has been approved, students must advise their Course Coordinator as early as possible to ensure that appropriate supports can be implemented or arranged in a timely manner.

Students are advised there are also strict deadlines to finalise Access Plan arrangements prior to examinations. Further information is available at: http://i.unisa.edu.au/campus-central/Exams_R/Before-the-Exam/Alternative-exam-arrangements/

Action from previous evaluations

You will be asked to complete an on-line evaluation form towards the end of the semester. In order to keep our courses at a high standard we rely on feedback from you. Please take a little time to complete this evaluation form which will be available on the course home page.

In the past feed back from evaluations has enable us to modify Study Guides, online learning resources, Readings, assessment and the workshops, and has also let us know what you, the student likes about a course and does not want to change.

Unplanned learnonline outages

The information below show the suggested alterations/considerations for assessment items dependent on the duration of the unplanned outage

less than 1 hour outage. No impact on either assessment

1 to 4 hour outage. **Assessment** - Consider an extension.

4 to 24 hour outage. **Assessment** - 24 hour extension.

Over 24 hour outage. **Assessment** - 48 hour extension.

Course Calendar

Study Period 2 - 2023

	Weeks	Topic	Assessment Details (Adelaide Time)
	13 - 19 February	Pre-teaching	
	20 - 26 February	Pre-teaching	
1	27 February - 5 March		
2	06 - 12 March		
3	13 - 19 March		
4	20 - 26 March	20 March: Clinical placement form due	Part A -SIMTICS due 20 Mar 2023, 11:59 PM
5	27 March - 2 April	31 March: Census date	Online quiz 1 due 27 Mar 2023, 11:59 PM
6	03 - 9 April		
	10 - 16 April	Mid-break	
7	17 - 23 April		
8	24 - 30 April		Part B -Q&A due 24 Apr 2023, 11:59 PM
9	01 - 7 May		
10	08 - 14 May		Part C -Bounce back activity due 08 May 2023, 11:59 PM
11	15 - 21 May		Online quiz 2 due 15 May 2023, 11:59 PM
12	22 - 28 May		Case scenario due 22 May 2023, 11:59 PM
13	29 May - 4 June		
14	05 - 11 June		Part D -presentation due 05 Jun 2023, 11:59 PM
15	12 - 18 June		
	19 - 25 June	20 June: logbooks due	Online quiz 3 due 19 Jun 2023, 11:59 PM
	26 June - 2 July	Swot-vac	