ASAR
Australian Sonographer Accreditation Registry

Australian Sonographer Accreditation Registry Limited
(02) 8850 1144, registry@asar.com.au, www.asar.com.au

Appendix 4 – Subject Outline

Name of Subject/Unit	Abdominal Sonography
Subject/Unit Code	RADY 5013

(Use a separate template for each subject/unit in the course)

Section 1: General Information

1.1 Core or elective subject/unit Indicate if the subject/unit is a:

- [X] core subject/unit
- [ ] elective subject/unit
- [ ] other (please specify):

1.2 Subject/unit weighting
If applicable, indicate, the weighting of this subject/unit and the total course points (eg 10 credit points for the subject/unit and 320 credit points for the course).

- 4.5 **Subject/Unit Credit Points** (eg 10 credit points)
- 36/54 **Total Course Credit Points** (eg 320 credit points)

1.3 Student workload
Indicate below, the expected student workload per week for this subject/unit:

- [ ] Number timetabled hours/week*
- 10+ Number personal study hours/week**
- (15) Number clinical placement hour/week***
- 25+ Total workload hours/week****

* Total time spent per week at lectures, tutorials, etc
** Total time students are expected to spend per week in studying, completing assignments, etc
*** Total time spent per week on clinical placements
**** That is, * + ** + *** = workload hours.

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1.4 Mode of Delivery

Indicate if this subject/unit is delivered (You may tick more than one box).

- [ ] face to face
- [X] online
- [ ] independent learning module/untimetabled study
- [ ] by a combination of modes (please specify)
- [ ] through a practicum
- [ ] other

Other (please specify)

1.5 Pre-requisites and / or assumed knowledge

Are students required to have undertaken a prerequisite/co-requisite subject/unit(s) for this subject/unit?

- [X] Yes
- [ ] No

If **yes**, provide details of the prerequisite/co-requisite or assumed knowledge requirements below:

Prerequisites:
RADY 5024 Professional Issues for Sonographers
RADY 5030 Ultrasound Physics and Instrumentation

1.6 Resource requirements

Do students require access to specialist facilities and/or equipment for this subject/unit (eg specialist facilities, computer access, equipment, particular case / scan types, libraries)?

- [X] Yes
- [ ] No

If **yes**, provide details of the requirements below. Please attach floor plans and photographs or videos showing the facilities and equipment that will be used for the course.

Students need to access the learnonline (moodle) website for this subject. The website provides resource, assessment portals & discussion boards. Students also can access the library and a number of online texts.

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Section 2 – Academic Details

2.1 Student learning outcomes/objectives
List the clinical and academic learning outcomes / objectives students would be expected to attain by successfully completing this subject/unit (link to assessment tasks (refer to 2.4 below)):

a)	Plan and describe the implementation of a sonographic examination of abdominal studies using relevant knowledge of anatomy, physiology, embryology, pathophysiology, normal and abnormal sonographic appearances, ultrasound physics and image optimisations.
b)	Use independent judgement to select appropriate sonographic examination methods to match the clinical setting and patient requirements in accordance with organisational procedures, professional standards and evidence based practice.
c)	Use the interpretation of sonographic images and assessment of clinical presentation to modify or extend the abdominal sonographic examination.
d)	Generate a record of the abdominal sonographic examination and the clinical findings and effectively communicate those findings using appropriate terminology.
e)	Review relevant and professional ethical standards in abdominal sonography required to deliver consistent, safe and patient focussed services.
f)	
g)	
h)	
i)	
j)	

2.2 Subject/unit content and structure

Provide details in the table below, about the subject/unit content and how it is structured, including practical components such as laboratory, studio and work-based placements. **NOTE**: Please attach course materials where available

The study period's work is divided into 9 modules. Each module has a corresponding section on the learnonline site. The content has been tailored to be as clinically relevant to early career sonographers as possible. The pathologies contained within the notes for each module are those more commonly encountered in Abdominal Sonography, ensuring that students are only learning pertinent and relevant information that will assist them with their everyday scanning. Students will complete activities which are interactive, web-based simulation programs, which provide step-by-step guides for students for some basic scans. They will also attend a 3-hour hands on workshop during the semester where they scan on the abdominal simulators to gain valuable practical experience. The following lists the content covered: Module 1 - Revision and Introduction to Abdominal Scanning Module 2 - Major Vessels Module 3 - Liver Module 4 - Pancreas and Biliary System Module 5 - The Urinary System Module 6 - The Pelvis Module 7 - Spleen, Adrenals, Retroperitoneum and Gastrointestinal Tract Module 8 - Paediatric Sonography Module 9 - Interventional Techniques and Anterior Abdominal Wall Ultrasound

2.3 Teaching methods/strategies

Briefly describe below, the teaching methods/strategies (face to face lectures, online tutorial) used in this subject/unit:

The course is online and modularised, with students advised to attend to each module in a time frame documented on the study calendar. There is a one-week teaching break mid study period along with three revision weeks that are provided at the end of each study period. Online discussion forums are available for students to ask questions and to engage with their fellow students and course coordinator. Introductory information includes an assigned section on the course learn online site which contains an outline of the course, information regarding the assessments, general resources for navigating the course, including an electronic copy of the course study guide, as well as links to relevant websites and learning activities. A Zoom tutorial occurs weekly outlining the key concepts for each module as well as for revision during SWOT VAC. Students can ask and answer questions during these sessions. There are also online practice quizzes for each module and recorded lectures that the students are directed to watch for the relevant modules. SIMTICS modules help to allow students to gain practical experience in a simulated environment and these are found within the module work. Scanning videos are also provided which break down how to scan each region that is included within an abdominal ultrasound as well as a complete abdominal ultrasound scan. These help students apply the knowledge that they have gain from the module learning resources and gauge an understanding of the clinical setting.

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2.4 Student assessment:

Provide, in table format as shown below, a schedule of formal clinical and academic assessment tasks and major examinations for the subject/unit

Assessment Type (eg Assignment – 2000 word essay (specify topic), Examination (specify length))	When Assessed (eg Week 5)	Weighting (eg 10% of Total subject/unit marks)	Learning Outcomes Assessed (link to 2.1 above eg (a), (b))
Case Study – Part A - 1500 words	week 8	25	All
Case Study – Part B – 100 words	week 12	15	All
Online Quiz x 4	ongoing	10	a,b,c,d
Written Examination - 3 hours	week 14	50	a,b,c,d

2.5 Prescribed and recommended readings:
Provide below, in formal reference format, a list of the prescribed and recommended readings:

Diagnostic Ultrasound (by Carol Rumack, Stephanie Wilson, J, Charboneau and Deborah Levine, 5th Edition 2018, Mosby)

Clinical Ultrasound (by Paul Allan, Grant Baxter, Michael Weston, 3rd Edition 2011, Elsevier)

Curry, R & Tempkin, B 2011, Sonography – Introduction to normal structure and function, 3rd Edition

As well as module specific recommended e-Books & e-readings as listed on the course learn online site.

2.6 Required Attachments:

Please provide the following materials for each subject:

1. The learning materials for the student
2. The teaching materials
3. The assessment tasks (academic and clinical)
4. Any materials provided to workplace supervisors.