UNSW Course Outline

SWCH9006 Laboratory Aspects of ART - 2024

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General Course Information

Course Code : SWCH9006
Year : 2024
Term : Term 1
Teaching Period : T1
Is a multi-term course? : No
Faculty : Faculty of Medicine and Health
Academic Unit : School of Clinical Medicine
Delivery Mode : Online
Delivery Format : Standard
Delivery Location : Kensington
Campus : Sydney
Study Level : Postgraduate
Units of Credit : 6

Useful Links

Handbook Class Timetable

Course Details & Outcomes

Course Description

This course deals solely with the laboratory aspects of Assisted Reproductive Treatment, from oocyte collection, gamete preparation and embryo culture up to and including methods of presenting results. It introduces the use of Quality Systems and risk management in human

embryo culture, and the rationales for choosing various laboratory techniques and their potential complications.

This course will provide a better understanding of the complexities of the laboratory and culture technique requirements currently in use. It has five main modules. The first two introduce the basic aspects of setting up an ART laboratory and highlight the importance of quality management systems including Benchmarking and evaluation of Performance Indicators to support meaningful self-assessment of laboratory outcomes. The third covers sperm preparation for ART, and in the fourth, we look at the biological processes that can affect laboratory outcomes, and briefly cover the oocyte retrieval process. The final module covers the practical aspects of an ART laboratory, such as insemination methods, fertilisation, embryo culture, embryo transfer, and cryopreservation.

Assessments in this course are a formative MCQs due on Week 2, two summative essays due on Week 5 and 10 and finished with a summative MCQs.

Relationship to Other Courses

Assistance with progression checking:

If you are unsure how this course fits within your program, you can seek guidance on optimising your program structure from staff at the Nucleus Student Hub.

Progression plans for UNSW Medicine and Health programs can be found on the UNSW Medicine & Health website

Course Learning Outcomes

Course Learning Outcomes
CLO1 : Outline the systems needed to create a functional ART Laboratory
CLO2 : Identify the biological events that determine the overall outcome of an IVF cycle and discuss how they can be supported by the laboratory systems
CLO3 : Evaluate the scientific principles, process management and risk minimisation methodologies necessary to maintain a functional ART laboratory
CLO4 : Identify common risks in ART laboratories, devise methods to control these risks and evaluate their effectiveness

Course Learning Outcomes	Assessment Item
CLO1 : Outline the systems needed to create a functional ART Laboratory	• Summative 1 • Summative 3
CLO2 : Identify the biological events that determine the overall outcome of an IVF cycle and discuss how they can be supported by the laboratory systems	• Summative 2
CLO3 : Evaluate the scientific principles, process management and risk minimisation methodologies necessary to maintain a functional ART laboratory	• Summative 1 • Summative 3
CLO4 : Identify common risks in ART laboratories, devise methods to control these risks and evaluate their effectiveness	• Summative 1 • Summative 3

Learning and Teaching Technologies

Moodle - Learning Management System

Learning and Teaching in this course

All course materials and course announcements are provided on the course learning management system, Moodle (or Open Access).

By accessing and using the ICT resources provided by UNSW, you are agreeing to abide by the 'Acceptable Use of UNSW ICT Resources' policy particularly on respect for intellectual property and copyright, legal and ethical use of ICT resources and security and privacy.

Assessments

Assessment Structure

Assessment Item	Weight	Relevant Dates
Summative 1 Assessment Format: Individual	35%	Due Date: 21/04/2024 11:59 PM
Summative 2 Assessment Format: Individual	35%	Due Date: 19/04/2024 05:00 PM
Summative 3 Assessment Format: Individual	30%	Due Date: 26/04/2024 05:00 PM

Assessment Details

Summative 1

Assessment Overview

2 questions about ART Lab Setup and Risk Assessment and Process Management and Risk Minimization in 7 pages max.

Course Learning Outcomes

- CLO1 : Outline the systems needed to create a functional ART Laboratory
- CLO3 : Evaluate the scientific principles, process management and risk minimisation methodologies necessary to maintain a functional ART laboratory
- CLO4 : Identify common risks in ART laboratories, devise methods to control these risks and evaluate their effectiveness

Detailed Assessment Description

This summative assessment requires you to answer two questions, each consisting of several parts. The aim of the first question is to display your knowledge of factors affecting the IVF Laboratory environment and of risk assessment, and to use this knowledge to identify, manage, and assess the effects of risk reduction efforts.

The aim of the second question is to display your knowledge and understanding of process and risk management, and to use this knowledge to construct a process map using the information provided.

If you experience problems submitting your assignment online, email it to the convenor by the due date and time. Assignments are to be saved as a Word document unless otherwise specified. Please ensure you add your name and student number to the front page of each submission.

Submission notes

This task has a short extension option. A short extension of 2 days is available for this task. See Section 3. Submission of Assessment Tasks in the Other Useful Information tab of your course outline and refer to Moodle for additional submission information.

Assessment information

As this assessment task involves some planning or creative processes, you are permitted to use software to generate initial ideas (**Planning Assistance**). However, you must develop or edit those ideas to such a significant extent that what is submitted is your own work, i.e. only occasional AI generated words or phrases may form part of your final submission.

You should keep copies of the initial prompts to provide to the course convenor if there is any uncertainty about the originality of your work.

If the outputs of generative AI (such as ChatGPT) form a part of your submission, it will be regarded as serious academic misconduct and subject to the standard penalties, which may include 00FL, suspension and exclusion.

UNSW Pro-Vice Chancellor Education and Student Experience (PVCESE) provides guidance on the use of generative Artificial Intelligence in assessments.

Assignment submission Turnitin type

This assignment is submitted through Turnitin and students can see Turnitin similarity reports.

Summative 2

Assessment Overview

2 questions about Biological events in 5 pages max.

Course Learning Outcomes

- CLO2 : Identify the biological events that determine the overall outcome of an IVF cycle and discuss how they can be supported by the laboratory systems

Detailed Assessment Description

This summative assessment requires you to answer two questions, each with several parts.

The aim of the first question is to show that you have a working knowledge of why sperm preparation is important in ART, as well as of the sperm preparation methodologies, why they are used for various patients, and how the laboratory can affect sperm function during processing.

All of the information about these methodologies is presented in the course notes, as well as in the textbook.

The aim of the second question is to show that you have a working knowledge of the relationship between biological requirements of the oocyte and embryo and the laboratory culture system. Many of the potential factors are mentioned in your course notes (Modules 3 and 4) and there is more information in both of the course textbooks.

If you experience problems submitting your assignment online, email it to the convenor by the due date and time. Assignments are to be saved as a Word document unless otherwise specified. Please ensure you add your name and student number to the front page of each submission.

Submission notes

This task has a short extension option. A short extension of 2 days is available for this task. See Section 3. Submission of Assessment Tasks in the Other Useful Information tab of your course outline and refer to Moodle for additional submission information.

Assessment information

As this assessment task involves some planning or creative processes, you are permitted to use software to generate initial ideas (**Planning Assistance**). However, you must develop or edit those ideas to such a significant extent that what is submitted is your own work, i.e. only occasional AI generated words or phrases may form part of your final submission.

You should keep copies of the initial prompts to provide to the course convenor if there is any uncertainty about the originality of your work.

If the outputs of generative AI (such as ChatGPT) form a part of your submission, it will be regarded as serious academic misconduct and subject to the standard penalties, which may include 00FL, suspension and exclusion.

UNSW Pro-Vice Chancellor Education and Student Experience (PVCESE) provides guidance on the use of generative Artificial Intelligence in assessments.

Assignment submission Turnitin type

This assignment is submitted through Turnitin and students can see Turnitin similarity reports.

Summative 3

Assessment Overview

30 MCQs questions with feedback if answers are incorrect.

Course Learning Outcomes

- CLO1 : Outline the systems needed to create a functional ART Laboratory
- CLO3 : Evaluate the scientific principles, process management and risk minimisation methodologies necessary to maintain a functional ART laboratory
- CLO4 : Identify common risks in ART laboratories, devise methods to control these risks and evaluate their effectiveness

Detailed Assessment Description

This summative assessment requires you to answer MCQs and constitutes 30% of your overall mark for this course.

Submission notes

Refer to Moodle for submission information. This tasks does not have a short extension option.

Assessment information

For this task, the level of use of generative Artificial Intelligence (AI) is categorised as "NO ASSISTANCE." It is prohibited to use any software or service to search for or generate information or answers. If such use is detected, it will be regarded as serious academic misconduct and subject to the standard penalties, which may include 00FL, suspension and exclusion.

Assignment submission Turnitin type

Not Applicable

General Assessment Information

Detailed instructions regarding assessments for this course are provided on the course Moodle page (or Open Learning).

For student information on results, grades, and guides to assessment see: https://student.unsw.edu.au/assessment

Grading Basis

Standard

Requirements to pass course

In order to pass this course students must:

- Achieve a composite grade of at least 50 out of 100
- Meet any additional requirements specified in the assessment details section and on Moodle.

Course Schedule

Teaching Week/Module	Activity Type	Content
Week 1 : 12 February - 18 February	Module	Module 1: ART Laboratory Setup
Week 2 : 19 February - 25 February	Module	Module 1: ART Laboratory Setup
Week 3 : 26 February - 3 March	Module	Module 2: Quality and Risk Management
Week 4 : 4 March - 10 March	Module	Module 2: Quality and Risk Management
Week 5 : 11 March - 17 March	Module	Module 3: Sperm preparation for ART
Week 6 : 18 March - 24 March	Module	Module 3: Sperm preparation for ART
Week 7 : 25 March - 31 March	Module	Module 4: Laboratory systems design to support gamete and embryo biology, and Oocyte Retrieval
Week 8 : 1 April - 7 April	Module	Module 4: Laboratory systems design to support gamete and embryo biology, and Oocyte Retrieval
Week 9 : 8 April - 14 April	Module	Module 5: Insemination, embryo culture, and cryopreservation
Week 10 : 15 April - 21 April	Module	Module 5: Insemination, embryo culture, and cryopreservation

Attendance Requirements

Students are strongly encouraged to attend all classes and review lecture recordings.

General Schedule Information

The times and locations of classes can be found on myUNSW under Class Timetable.

Students enrolled in online courses should also refer to Moodle as some classes are not centrally timetabled (e.g., workshops) and will not appear on the timetable website.

The expected engagement for all UNSW 6UOC courses is 150 hours per term. This includes lectures, tutorials, readings, and completion of assessments and exam preparation (if relevant).

Course Resources

Recommended Resources

Recommended resources for this course are provided on the course Moodle page.

Additional Costs

There are no additional costs associated with this course.

Course Evaluation and Development

Student feedback is taken seriously, and continual improvements are made to the course based, in part, on such feedback.

We use student feedback from myExperience surveys to develop and make improvements to the course each year. We do this by identifying areas of the course that require development from both the rating responses and written comments. Please spare a few minutes to complete the myExperience surveys for this course posted at the top of the Moodle page at the end of term.

Staff Details

Position	Name	Email	Location	Phone	Availability	Equitable Learning Services Contact	Primary Contact
	Michael Chapman					No	No
	Suha Kilani				via appointment (email)	No	Yes

Other Useful Information

Academic Information

As a student of UNSW Medicine & Health you are expected to familiarise yourself with the contents of this course outline and the UNSW Student Code and policies and procedures related to your studies.

Student Code of Conduct

Throughout your time studying at UNSW Medicine & Health, you share a responsibility with us for maintaining a safe, harmonious and tolerant University environment. This includes within the courses you undertake during your degree and your interactions with the UNSW community, both on campus and online.

The UNSW Student Code of Conduct website provides a framework for the standard of conduct expected of UNSW students with respect to both academic integrity and your responsibility as a UNSW citizen.

Where the University believes a student may have breached the code, the University may take disciplinary action in accordance with the Student Misconduct Procedure.

The Student Conduct and Integrity Office provides further resources to assist you to understand your conduct obligations as a student at UNSW.

Academic Honesty and Plagarism

Academic integrity

UNSW has an ongoing commitment to fostering a culture of learning informed by academic integrity. All UNSW staff and students have a responsibility to adhere to the principle of academic integrity, and ethical scholarship of learning is fundamental to your success at UNSW Medicine & Health.

Plagiarism, contract cheating, and inappropriate use of generative AI undermine academic integrity and are not tolerated at UNSW. For more information see the Academic Integrity and Plagiarism toolkit.

In addition to the information you are required to review in your ELISE training, UNSW Medicine & Health strongly recommends that you complete the Working with Academic Integrity module before submitting your first assessment task.

Referencing

Referencing is a way of acknowledging the sources of information that you use to research your assignments. Preferred referencing styles vary among UNSW Medicine & Health disciplines, so check your course Learning Management System (e.g. Moodle or Open Learning) page for information on preferred referencing styles.

For further information on referencing support and styles, see the Current Student Referencing page.

Academic misconduct and plagiarism

At UNSW, academic misconduct is managed in accordance with the Student Misconduct Procedure. Allegations of plagiarism are generally handled according to the UNSW Plagiarism Management Procedure. Plagiarism is defined in the UNSW Plagiarism Policy and is not tolerated at UNSW.

Use of Generative AI and other tools in your assessment

UNSW has provided guiding statements for the use of Generative AI in assessments. This will differ, depending on the individual assessment task, your course requirements, and the course stage within your program.

Your course convenor will outline if and how you can use Generative AI in each your assessment tasks. Options for the use of generative AI include: (1) no assistance; (2) simple editing assistance; (3) planning assistance; and (4) full assistance with attribution.

You may be required to submit the original generative AI responses, or drafts of your original work. Inappropriate use of generative AI is considered academic misconduct.

See your course Moodle (or Open Learning) page for the full instructions for individual assessment tasks for your course.

Submission of Assessment Tasks

Short extensions and special consideration

Short extension

Commencing in Term 1, 2024, UNSW has introduced a short extension procedure for submission of assessment tasks. Not all tasks are eligible, and eligible tasks have a predetermined extension length. UNSW Medicine and Health have set School-level extension lengths for eligible assessment tasks. See your course assessment descriptions for more information.

Students must check the availability of a short extension in the individual assessment task information for their courses.

Short extensions do not require supporting documentation. They must be submitted before the assessment task deadline. No late applications will be accepted.

Late penalties apply to submission of assessment tasks without approved extension.

Special consideration

In cases where short term events beyond your control affect your performance in a specific assessment task you may formally apply for Special Consideration through myUNSW.

UNSW has a **Fit to Sit rule**, which means that by sitting an examination on the scheduled date, you are declaring that you are fit to do so and cannot later apply for Special Consideration.

Examinations include centrally timetabled examinations and scheduled, timed examinations and tests managed by your School.

Important information relating to Short Extension and Special Consideration is available here, including eligibility for Special Consideration, circumstances where students with Equitable Learning Plans can apply for Short Extensions and Special Consideration, and the appeals process.

Examinations

Information about the conduct of examinations in your course is provided on your course Moodle page.

Timed online assessment tasks

If you experience a technical or connection problem during a timed online assessment, such as a timed quiz, you can apply for Special Consideration. To be eligible to apply you need to contact the Course Convenor and advise them of the issue immediately. You will need to submit an application for Special Consideration immediately, and upload screenshots, error messages or other evidence of the technical issue as supporting documentation. Additional information can be found on: https://student.unsw.edu.au/special-consideration

Other assessment tasks

Late submission of assessment tasks

UNSW has standard late submission penalties as outlined in the UNSW Assessment Implementation Procedure, with no permitted variation. All late assignments (unless extension or exemption previously agreed) will be penalised by 5% of the maximum mark per calendar day (including Saturday, Sunday and public holidays).

Late submissions penalties are capped at five calendar days (120 hours). This means that a student is not permitted to submit an assessment more than 5 calendar days (120 hours) after the due date for that assessment (unless extension or exemption previously agreed).

Failure to complete an assessment task

You are expected to complete all assessment tasks for your courses. In some courses, there will be a minimum pass mark required on a specific assessment task (a “hurdle task”) due to the

need to assure clinical competency.

Where a hurdle task is applicable, additional information is provided in the assessment information on your course Moodle page.

Feedback on assessments

Feedback on your performance in assessment tasks will be provided to you in a timely manner. For assessment tasks completed within the teaching period of a course, other than a final assessment, feedback will be provided within 10 working days of submission, under normal circumstances.

Feedback on continuous assessment tasks (e.g. laboratory and studio-based, workplace-based, weekly quizzes) will be provided prior to the midpoint of the course.

Any variation from the above information that is specific to an assessment task will be clearly indicated in the course and assessment information provided to you on your course Moodle (or Open Learning) page.

Faculty-specific Information

Additional support for students

The university offers a wide range of support services that are available for students. Here are some links for you to explore.

- The Current Students Gateway: https://student.unsw.edu.au
- Academic Skills and Support: https://student.unsw.edu.au/academic-skills
- Student support: https://www.student.unsw.edu.au/support
- Student Wellbeing, Health and Safety: https://student.unsw.edu.au/wellbeing

Mind Smart Guides are a series of mental health self-help resources designed to give you the psychological flexibility, resilience and self-management skills you need to thrive at university and at work.

- Mind Smart Guides: https://student.unsw.edu.au/mindsmart

- Equitable Learning Services: https://student.unsw.edu.au/els
- Guide to studying online: https://www.student.unsw.edu.au/online-study

Most courses in UNSW Medicine & Health use Moodle as your Learning Management System. Guidance for using UNSW Moodle can be found on the Current Student page. Difficulties with Moodle should be logged with the IT Service Centre.

- Moodle Support: https://student.unsw.edu.au/moodle-support

The IT Service Desk is your central point of contact for assistance and support with remote and on-campus study.

- UNSW IT Service Centre: https://www.myit.unsw.edu.au/services/students

Course evaluation and development

At UNSW Medicine & Health, students take an active role in designing their courses and their overall student experience. We regularly seek feedback from students, and continuous improvements are made based on your input. Towards the end of the term, you will be asked to participate in the myExperience survey, which serves as a source of evaluative feedback from students. Your input to this quality enhancement process is valuable in helping us meet your learning needs and deliver an effective and enriching learning experience. Student responses are carefully considered, and the action taken to enhance educational quality is documented in the myFeedback Matters section of your Moodle (or Open Learning) course page.

School Contact Information

School guidelines on contacting staff:

Course questions

All questions related to course content should be posted on Moodle (or Open Learning) or as directed by your Course Convenor.

In cases where email communication with course convenors is necessary, we kindly request the following:

- Use your official email address for any correspondence with teaching staff.
- We expect a high standard of communication. All communication should avoid using short-hand or texting language.
- Include your full name, student ID, and your course code and name in all communication.

Our course convenors are expected to respond to emails during standard working hours of Monday to Friday, 9am-5pm.

Administrative questions

If you have an administrative question about your program of study at the School please submit your enquiry online at UNSW Ask Us.

Complaints and appeals

Student complaints and appeals: https://student.unsw.edu.au/complaints

If you have any grievances about your studies, we invite you to address these initially to the Course Convenor. If the response does not meet your expectations, you may then contact the School Grievance Officer, A/Prof Sean Kennedy (sean.kennedy@unsw.edu.au).