

BIOM9021

Masters Project (Half Time)

Term 3, 2022

Course Details

Units of Credit 6

Summary of the Course

The biomedical engineering Masters Project allows coursework Master training either within the School or with collaborating institutions such as are selected by the student in consultation with a supervisor conducting the student. If the research topic selected is external to the School/University for an internal GSBmE co-supervisor/assessor. The BIOM9021 project contributes half of a student's normal full-time load. Projects are assessed report in the format of either a thesis or a research paper ready for submission oral or poster presentation may be also required. Performance in this

BIOM9021 is the second half of the 12 UOC research project. BIOM9020 these courses allows a student to undertake the equivalent of BIOM9020 terms. You must discuss the research project with your supervisor and in this BIOM9020. Satisfactory performance in BIOM9020 will enable you

Course Aims

This is the course for the postgraduate masters research projects to be BIOM9020 plus BIO9021 consists of a total of 12 UOC. It allows coursework research training either within the School or with collaborating institutions the thesis proposal form (see GSBmE website) in consultation with a GSBmE their supervisor. A second co-supervisor/assessor must also be nominated proposal forms must be approved by the Head of School.

Course Learning Outcomes

After successfully completing this course, you should be able to:

Learning Outcome	EA Stage 1 Competencies
1. Evaluate and critically review the scientific literature	PE1.1, PE1.2, PE1.3, PE1.4, PE1.5, PE1.6
2. Write a scientific report and communicate an educated audience	PE3.1, PE3.2, PE3.3, PE3.4, PE3.5
3. Design, carry out, analyse and report on a project	PE2.1, PE2.2, PE2.3, PE2.4

Teaching Strategies

Your supervisor will guide you through the thesis research plan that you including a review of the literature, research components and scientific

Assessment

Your scientific manuscript for BIOM9021 will be assessed by (i) your s
assessor. Your scientific manuscript mark will be the average these tw
difference between your two assessors is greater than 10 marks the co
grade will be the weighted average of your assessments from BIOM902
You will receive the same grade for both courses upon completion of E

Assessment task	Weight	Due Date	Course Learning Outcomes Assessed
1. Scientific Manuscript	100%	Tuesday Week 11 at 11:59 pm	1, 2, 3

Assessment 1: Scientific Manuscript

Assessment length:

The author should acknowledge those who have provided funds, reagent training and scientific advice.

Introduction

The introduction should give a clear account of the background for the or hypothesis tested should be stated. The introduction should be und Introductions should be written in a funnel style: It begins with the g addressed. Usually this is the disease or ailment that your research m procedure that will be improved, or the fundamental scientific question paragraph becomes more and more specific, each outlining the need fo references, with the final paragraph revealing the aim of the research outlining the contents of the report. For a guideline on writing a hypot section.

Methods

The methods must be described in enough detail to allow the experime repeated by an experienced investigator. Give references to establish and brief descriptions for methods that have been published but are n substantially modified methods. Identify the apparatus, drugs and che manufacturer s name and address in parentheses after each item. Des and define all statistical terms, abbreviations, and symbols. Clear jus the statistical tests chosen. Specify the computer software used. Whe selection of the subjects (patients or laboratory animals, including co number used and other important characteristics of the subjects. If an compliance with the NHMRC code and UNSW ACEC approved (or other ethics project number must be included in the methods. If human subje UNSW HREC or HREA project number must be cited.

Results

Present your results in logical sequence in the text, tables, graphs an the experimental results should be succinct, but in enough detail to al and interpreted by the reader. Where group data is presented, the ave measure of variability (standard deviations, confidence intervals, stan with the number of observations, observed power, effect sizes and sta given as appropriate. The rationale for performing the experiments ma Results section, but conclusions or interpretation of results should no text all the data that is presented in the tables or graphs. Headed par presentation of the results.

Work which is integral to the manuscript that has been performed by o the manuscript but not treated as the student s own work and identifie should also be clearly disclosed in the Statement of Contribution and

Discussion

In the discussion explore possible mechanisms or explanations for the and contrast your results with those from other relevant studies, state explore the implications of the findings for future research. Do not rep

given in the Introduction or the Results sections.

Conclusions

Provide a one paragraph conclusion to your research. This is not a concise summation of your results and whether your hypotheses were supported, but an explanation why.

References

Refer to your supervisor for an appropriate referencing style, as these may vary between specific disciplines. As a guide, many engineering reports using IEEE Numbered References style, ensure that it is consistent throughout. References should be listed in the order of referencing style. References must all be cited in-text (and vice versa).

Tables

Each table should be given on a separate page integrated at an appropriate point in the report. Tables are numbered consecutively according to the order in which they are used. Tables should be numbered with Arabic numerals and the number should be placed at the head of the table. Tables should be self-explanatory and should be provided in footnotes underneath the table. Give each column a short descriptive title. Tables must be cited within the text, e.g. The results from the study (Table 1) span over time.

Figures and Legends

Each figure should be given on a separate page, integrated at an appropriate point in the report. Figures should be numbered separately with Arabic numerals in the order in which they are used. Figure titles should be headed out for optimal visibility.

Attendance Requirements

There is no official class time for this course. Your face-to-face time supervisor, as you are expected to meet them at least once per week. enrolment and registration date.

Course Schedule

[View class timetable](#)

Timetable

Date	Type	Content
Study Week: 21 November - 24 November	Assessment	Report Due Tuesday Week 11 11:59 p

Resources

Prescribed Resources

Resources will be made available to help students guide them in their

Extensions

You can apply for [special consideration](#) if illness or other circumstances interfere with assessment performance.

Other applications for extension of submission of thesis reports (e.g.

1. Discuss the possibility of an extension with your supervisor first.
2. Requests can then be lodged by <http://student.com> The supervisor will then receive an email asking them to approve, before it is escalated.
3. Request must be made by term.
4. Panel decision will be made by end of week.
5. The decision will be made by a panel consisting of the HoS (or Coordinator), and 1 other person.
6. Students should be alerted to the fact that this is not guaranteed getting an extension.
7. Typically, extensions are granted UP TO 3 weeks. The length of time requested and justified by the supervisor. Panel will decide the length.

Procedure if you fail

Students have three options.

1. re-enrol for BIOM9020/9021, new project and supervisor
2. re-enrol for BIOM9021 again with the same project - needs consent of supervisor & student
3. Student does further work, re-submits thesis. ~~Can offer a mark cap of 6 weeks~~ 50%. If still not satisfactory, then needs to re-enrol.

This last option is only available if the original mark was ≤ 40 , OR if it was ≥ 40 before graduation (regardless of the original mark).

[Industry based projects](#)

We encourage students to seek partnerships with industry, so students can gain experience in industry. However, if confidentiality is required, a confidential disclosure agreement must be signed. The agreement will protect the intellectual property rights of the industry. Students or academics must also sign confidential disclosure agreements with UNSW and are advised to talk to the course coordinator and UNSW legal services before signing of the confidential disclosure or research agreement.

[Late procedure](#)

In all cases, applications for late submission can be applied for BEFORE

discretion of the thesis coordinator but should only be granted in exceptional circumstances. In exceptional circumstances, students can also apply through myUNSW for special consideration.

5 marks will be deducted for every day late. Penalty applies until the mark has decreased to 50, and further lateness does not result in a failure of the thesis (weekends count as days).

[Additional support for students](#)

Submission of Assessment Tasks

Laboratory reports and major assignments [Non-Plagiarism Declaration Cover Sheet](#)

Assignments should be submitted on time. A daily penalty of 5% of the assignment will apply for work received after the due date. Any assignment will not be accepted. The only exemption will be when prior permission for late submission is granted by the Course coordinator. Extensions will be granted only on medical or other extreme circumstances.

Academic Honesty and Plagiarism

PLAGIARISM

Beware! An assignment that includes plagiarised material will receive a grade of 0. Students who plagiarise may fail the course. Students who plagiarise will have their names entered in the Academic Integrity Register and will be liable to disciplinary action, including exclusion from the course. It is expected that all students must at all times submit their own work. Copying or using the work or ideas of someone else without clearly acknowledging the source is plagiarism.

All assessments which you hand in must include a [Non-Plagiarism Declaration Cover Sheet](#) both individual and group work. Attach it to your assignment before submitting it to your Coordinator or at the School Office.

Plagiarism is the use of another person's work or ideas as if they were your own. If it is desirable to use other people's material you should adequately acknowledge them (giving the complete reference details, author, title, journal, etc.). The Learning Centre provides further information on what constitutes plagiarism at <https://student.unsw.edu.au/plagiarism>

Academic Information

COURSE EVALUATION AND DEVELOPMENT

Student feedback has helped to shape and develop this course, including on-line evaluations as part of UNSW's myExperience platform. We encourage you to complete such an on-line evaluation toward the end of the semester. Your feedback provided will be important in improving the course for future students.

DATES TO NOTE

Refer to MyUNSW for Important Dates, available at:
<https://my.unsw.edu.au/student/resources/KeyDates.html>

ACADEMIC ADVICE

For information about:

- " Notes on assessments and plagiarism,
- " Special Considerations,
- " School Student Ethics Officer, and
- " BESS

refer to the School website available at
<http://www.engineering.unsw.edu.au/biomedical-engineering/>

Supplementary Examinations:

Supplementary Examinations for Term 1 2022 will be held on (TBC) shortly after the end of the term.

This course outline sets out description of classes at the date the Course Outline was published. The nature of classes may change during the Term after the Course Outline is published. Please consult the up to date class descriptions. If there is any inconsistency between the University timetable and the Course Outline (as published), the description in the Course Outline/Moodle applies.

Image Credit

<https://lupinepublishers.com/biomedical-sciences-journal/>

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Acknowledgement of Country

We acknowledge the Bedegal people who are the traditional custodians of the land on which we live and work.

Kensington campus is located.

