

Course Details

Units of Credit 12

Summary of the Course

The biomedical engineering Masters Project allows coursework Master's 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 Project is conducted expected to account for the student's normal full-time load. Projects are project report in the format of either a thesis or a research paper ready journal. An oral or poster presentation may be also required. Performance

Please note: Candidates must contact the School for consent to enrol. high achieving students with prior written school approval. Approval is completed an undergraduate thesis project with your proposed supervisor

Course Aims

This is the course for the postgraduate masters research projects to be of 12 UOC and is expected to account for the student's normal full-time students to experience research training either within the School or with Candidates should complete the thesis proposal form (see GSBmE website GSBmE supervisor who will act as their supervisor. A second co-supervisor nominated on this application. All thesis proposal forms must be approved

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 includes including a review of the literature, research components and scientific

Assessment

Your scientific manuscript for BIOM9914 will be assessed by (i) your academic/researcher. Your scientific manuscript mark will be the average of the two marks. The difference between the two marks will be the difference between the two marks.

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 guideline on writing a hypoth

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

Conclusions

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

References

Refer to your supervisor for an appropriate referencing style, as these may vary by discipline. As a guide, many engineering reports using IEEE Numbered References style. References should be listed in the order in which they are first cited in the text. References must all be cited in-text (and vice versa).

Tables

Each table should be given on a separate page integrated at an appropriate location in the text. Tables are numbered consecutively according to the order in which they are first cited in the text. Tables should be numbered with Arabic numerals and the number should be placed at the top right 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) show that the system span over time.

Figures and Legends

Each figure should be given on a separate page, integrated at an appropriate location in the text. Figures should be numbered separately with Arabic numerals in the order in which they are first cited in the text. Figures and panels within figures should be laid out for optimal visibility. Figures should be numbered with Arabic numerals and the number should be placed at the top right of the figure. Figures should include error bars. A description of the statistical treatment of the data should be included in the figure caption. Figures should be numbered consecutively according to the order in which they are first cited in the text. Figure legends can appear below the figure. Each figure should be given a title and a legend that explains the figures in the figure. If possible, they can be understood without reference to the text. All symbols and units should be explained within the legend. If a figure has been published, acknowledge this in the legend.

Supplementary Data

Material needed for an in-depth evaluation of the work, but which does not fit into the main text.

Use only standard abbreviations; the full term for which an abbreviation is used should be used in the text. SI units and symbols should be used for all quantities unless otherwise specified. For example, blood pressure is commonly measured in mmHg, but the SI unit of Pascals. For gene names and loci, proteins, virus names, etc., use the full name in each field. Students should refer to the supervisor for assistance.

Formatting and Technical Instructions

Text should be Times Roman, 12-point font, with 1.5 line spacing throughout. Margins should be 3 cm on the left-hand side, 2 cm on the right-hand, 2 cm at the top, and 2 cm at the bottom. The manuscript should be 5000 words (+/- 10%) excluding the abstract, references, tables, figures, legends, in-text citations, supplementary material, etc.

Provision for papers submitted to a journal prior to thesis due date

If a student has submitted their report as a paper to a journal before the thesis due date, they must still meet the requirements to that in this document (such as word limit, font and spacing).

Resources

Prescribed Resources

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

Extensions

You can apply [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.

discretion of the thesis coordinator but should only be granted in exce

drafts of their writing to a Smarthinking tutor or connect to a Smarthinking tutor to receive comprehensive feedback on a variety of writing areas. For all contact, visit Smarthinking@unsw.edu.au

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](#) for both individual and group work. Attach it to your assignment before submitting it to the Course 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 it, stating who they are and where you found them (giving the complete reference details). 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) should you require them.

Acknowledgement of Country

We acknowledge the Bedegal people who are the traditional custodians of the Kensington campus is located.

