BIOM9332

Biocompatibility

Term 2, 2023

Course Overview

Staff Contact Details

Convenors

Name	Email	Availability	Location	Phone
Jelena Rnjak-Kovacina	j.rnjak-kovacina@unsw.edu.au		Samuels 507	9385 3920
Nona Farbehi	n.farbehi@unsw.edu.au			

School Contact Information

Student Services can be contacted via unsw.to/webforms.

Course Details

Units of Credit 6

Summary of the Course

This course outlines the concepts of biocompatibility with emphasis on understanding biological responses to a range of biomaterials and medical devices.

Course Aims

The overall aims of this course are to:

- understand fundamental concepts related to biological performance of materials used in medical devices.

responses to a range of biomaterials and medical devices. The course consists of 4h of face-to-face time per week, including lectures and workshops. Workshop (2h/week) attendance in-person is expected. Additional independent learning is expected based on guidelines provided throughout the term, including reading of course materials, additional recommended tasks, and completion of assessment tasks.

This course compliments other BIOM courses including Cellular and Tissue Engineering, Mechanical Properties of Biomaterials, Regulatory Requirements for Biomedical Technology, Clinical Laboratory Science and certain thesis topics.

of medical devices. This task is designed to foster team work and put the theory into action. Part 2 is submitted as a group.The groups will be formed in the first tutorial.

This is not a Turnitin assignment

Assessment 5: Major Project - Part 3 (Group)

Due date: TBD

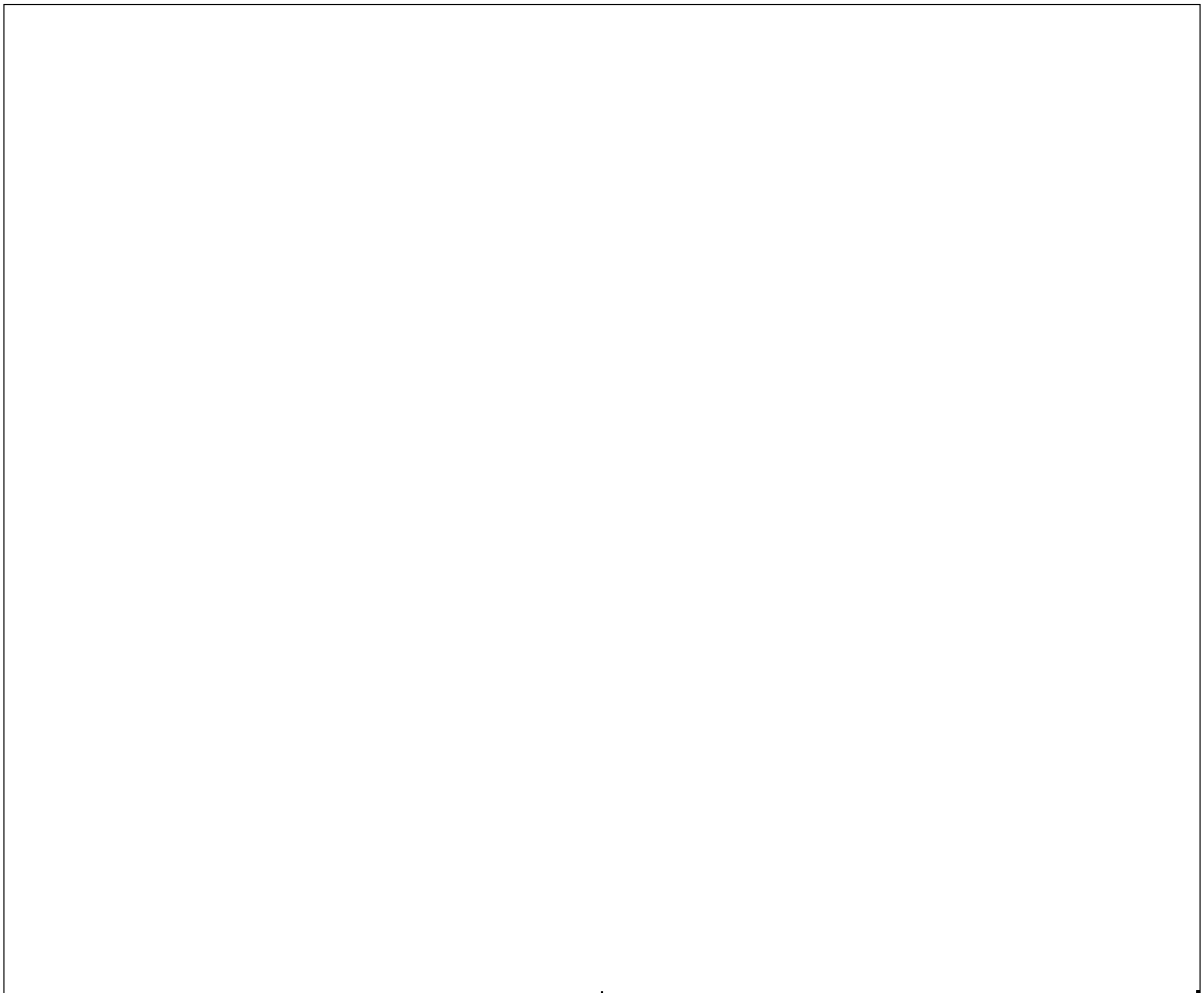
The Major Project that involves developing a conceptual framework for improved biocompatibility testing of medical devices. This task is designed to foster team work and put the theory into action. Part 3 is submitted as a group.The groups will be formed in the first tutorial.

This is not a Turnitin assignment

Assessment 6: Major Project - Part 4

Due date: TBD

The Major Project that involves developing a conceptual framework for improved biocompatibility testing of medical devices. This task is designed to foster team work and put the theory into action. Part 4 is submitted individually.



August	Workshop	

Submission of Assessment Tasks

Laboratory reports and major assignments will require a Non Plagiarism Declaration Cover Sheet.

Assignments should be submitted on time. A daily penalty of 5% of the marks available for that assignment will apply for work received after the due date. Any assignment more than 5 days late will not be accepted. The only exemption will be when prior permission for late submission has been granted by the Course coordinator. Extensions will be granted only on medical or compassionate grounds under extreme circumstances.

Academic Honesty and Plagiarism

PLAGIARISM

Beware! An assignment that includes plagiarised material will receive a 0?il, and students who plagiarise may fail the course. Students who plagiarise will have their names entered on a plagiarism register and will be liable to disciplinary action, including exclusion from enrolment.

Academic Information

COURSE EVALUATION AND DEVELOPMENT
Student feedback has helped to shape and develop this course, including feedback obtained from on-

We acknowledge the Bedegal people who are the traditional custodians of the lands on which UNSW Kensington campus is located.

Appendix: Engineers Australia (EA) Professional Engineer Competency Standard

Program Intended Learning Outcomes	
Knowledge and skill base	
PE1.1 Comprehensive, theory based understanding of the underpinning natural and physical sciences and the engineering fundamentals applicable to the engineering discipline	
PE1.2 Conceptual understanding of the mathematics, numerical analysis, statistics, and computer and information sciences which underpin the engineering discipline	
PE1.3 In-depth understanding of specialist bodies of knowledge within the engineering discipline	
PE1.4 Discernment of knowledge development and research directions within the engineering discipline	
PE1.5 Knowledge of engineering design practice and contextual factors impacting the engineering discipline	
PE1.6 Understanding of the scope, principles, norms, accountabilities and bounds of sustainable engineering practice in the specific discipline	
Engineering application ability	
PE2.1 Application of established engineering methods to complex engineering problem solving	
PE2.2 Fluent application of engineering techniques, tools and resources	
PE2.3 Application of systematic engineering synthesis and design processes	
PE2.4 Application of systematic approaches to the conduct and management of engineering projects	
Professional and personal attributes	
PE3.1 Ethical conduct and professional accountability	
PE3.2 Effective oral and written communication in professional and lay domains	
PE3.3 Creative, innovative and pro-active demeanour	
PE3.4 Professional use and management of information	
PE3.5 Orderly management of self, and professional conduct	
PE3.6 Effective team membership and team leadership	