

EDST6726

Extension Mathematics Method 1

Term 1, 2022

Course Overview

Staff Contact Details

Convenors

Name	Email		Availability	Location	Ph

Acknowledgement of Country

UNSW Arts, Design and Architecture Kensington and Paddington campus Lands. We pay our respects to the Bidjigal and Gadigal peoples who a We acknowledge the Aboriginal and Torres Strait Islander peoples, the winds and waters we all now share, and pay respect to their unique va enduring cultures which deepen and enrich the life of our nation and c

Course Details

Units of Credit 6

Workload

150 hours including class contact hours, readings, class preparation, etc.

Summary of the Course

This is a hybrid course. It is available to both undergraduate and postgraduate students. The content, delivery and assessment will be identical for both groups of students.

This course is designed to increase a student's pedagogical content knowledge and skills in teaching Mathematics. The key elements of pedagogy and Mathematics content knowledge will be developed. Students will critically address how these elements can be applied in classroom practice for addressing the requirements and philosophy of the NSW Board of Studies.

Course Learning Outcomes

1. Demonstrate knowledge and understanding of the NSW Board of Studies Syllabuses for stages 4/5 and stage 6 and extension Mathematics content.
2. Demonstrate the essential link between outcomes, assessment, teaching and learning planning.
3. Discuss classroom strategies that recognize students' different approaches to learning.
4. Analyse specific assessment strategies for a diverse range of students.
5. Develop appropriate and engaging resources for the Mathematics classroom that account for students' skills, interests and prior achievements and their cultural, religious backgrounds.

Australian Professional Standards for Teachers

Standard	Assessment/s
1.2.1 Demonstrate knowledge and understanding of how students learn and the implications for teaching.	Research into how students learn and the implications for teaching.
1.3.1 Demonstrate knowledge of teaching strategies that are responsive to the learning strengths and needs of students from diverse linguistic, cultural, religious, and socioeconomic backgrounds.	Research into how students learn and the implications for teaching.
2.1.1 Demonstrate knowledge and understanding of the nature and structure of the content and teaching strategies of the area.	Research into how students learn and the implications for teaching.
2.4.1 Demonstrate broad knowledge of, understanding of and respect for Aboriginal and Torres Strait Islander histories, cultures, and languages.	Research into how students learn and the implications for teaching.
2.5.1 Know and understand literacy and numeracy teaching strategies and their application in teaching areas.	Teaching strategies and their application in teaching areas.

2.6.1	Implement teaching strategies for using ICT learning opportunities for students.	tb, expand curriculum
3.3.1	Include a range of teaching strategies.	1, 2
3.4.1	Demonstrate knowledge of a range of resources including ICT engage students in their learning.	

National Priority Area Elaborations

A s s e s s m e n t

A s s e s s m e n t t a s k	W e i g h t	D u e D a t e	C o u r s e L e a r n i n g

RUBRIC/FEEDBACK SHEET
EDST6726 EXTENSION MATHEMATICS METHOD 1
UNSW SCHOOL OF EDUCATION

Assessment Task 1: Designing an Assessment Task

Specific Criteria	(-) > (+)
Understanding of the question or issue and the key concepts involved	

Specific Criteria	(-)	> (+)
<ul style="list-style-type: none"> Reference specifically to material, research and ideas presented in method lectures, readings from the prescribed text and other sources, relevant lectures from the combined method lecture series and from the professional experience lectures on diversity 		
Structure and organisation of response		
Presentation of response according to appropriate academic and linguistic conventions		
General comments/recommendations for next time:		

Recommended: /20 (FL PS CR DN HD) Weighting: 30 %

NB: The ticks in the various boxes are 50% speeded up.

RUBRIC/FEEDBACK SHEET
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Assessment Task 2: Using Computer Based Technology

Specific Criteria	(-) > (+)
Understanding of the question or issue and the key concepts involved	

Specific Criteria	(-)	> (+)
<ul style="list-style-type: none"> Reference specifically to material, research and ideas presented in method lectures, readings from the prescribed text and other sources, relevant lectures from the combined method lecture series and from the professional experience lectures on diversity 		
Structure and organisation of response		
Presentation of response according to appropriate academic and linguistic conventions		
General comments/recommendations for next time:		

Recommended: /20 (FL PS CR DN HD) Weighting: 40 %

NB: The ticks in the various boxes are 50% speeded up.

R e s o u r c e s

P r e s c r i b e d R e s o u r c e s

R e q u i r e d T e x t s

www.cecnsw.catholic.edu.au

www.curriculum.edu.au

www.curriculumsupport.education.nsw.gov.au

www.aboriginaleducation.nsw.edu.au/index.html

www.nswteachers.nsw.edu.au

www.mansw.nsw.edu.au

www.aamt.com.au

www.hsc.csu.edu.au

www.tes.co.uk/teaching-resources

www.desmos.com

www.merga.net.au

www.geogebra.org

www.scootle.edu.au

<https://mathslinks.net/>

<http://nrich.maths.org/>

Submission of Assessment Tasks

Turnitin Submission

If you encounter a problem when attempting to submit your assignment telephone External Support on 9385 3331 or email them on externaltel@externaltel.edu.au. The office hours are 8:00am – 10:00pm on weekdays and 9:00am – 5:00pm on weekends. If you are unable to submit your assignment due to a fault with Turnitin you must retain your ticket number from External Support (along with any evidence you have gathered) and attach this to your extension application. You can include as evidence to support your extension application. If you email External Support to advise of a problem they will automatically receive a ticket number, but if you telephone you will need to provide your ticket number. Turnitin also provides updates on their system status on Twitter.

Generally, assessment tasks must be submitted electronically via either Turnitin or the assignment submission area of the Learning Management System. In instances where this is not possible, it will be stated on the assignment brief.

Academic Honesty and Plagiarism

Plagiarism is using the words or ideas of others and presenting them as your own, from deliberate cheating to accidentally copying from a source without acknowledging it.

UNSW groups plagiarism into the following categories:

Copying using the same or very similar words to the original text or ideas from a source or using quotation marks. This includes copying materials, ideas,

Academic Information

Due to evolving advice by NSW Health, students must check for updated learning for all Arts, Design and Architecture courses this term (via M provided.)

For essential student information relating to:

- requests for extension;
- late submissions guidelines;
- review of marks;
- UNSW Health and Safety policies;
- examination procedures;
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