

Enrolment Course Structure

Course Code: TL5

Course Name: Bachelor of Mathematical Sciences / Bachelor of Education

Locations: Gippsland and Mt Helen

Unit Code	Unit Name	Unit Rules
FIRST YEAR		
Semester 1		
EDBED 1011	Literacy and Numeracy	
EDBED 1016	Learning and Teaching	EX: EDBED1008 and EDDDE1001 and EDFGC1303
EEZED 1711	Professional Experience: Learning and Teaching <i>(Includes 5 days Placement)</i>	
	Maths Discipline - Unit A	
	Minor Discipline A	
Semester 2		
EDBED 1017	Child and Adolescent Development and Characteristics	EX: EDBED1009 and EDECE1006 and EDFGC2021
	Maths Discipline - Unit B	
	Maths Discipline - Unit C	
	Minor Discipline B	
SECOND YEAR		
Semester 1		
EDBED 2114	Transition to the Profession 1	PR: EDBED1008 or EDBED1016 or EDDDE1001 EX: EDECE1016
EDDDE 2103	Designing for Learning	PR: EDBED1003 or EDBED1016 or EDDDE1001 or EDDDE1002
	Maths Discipline - Unit D	
	Maths Discipline - Unit E	
Semester 2		

EDBED 2010	Diversity and Inclusion: Teaching Strategies for Diverse Learners	EX: EDECE1013
EEZED 2722	Professional Experience 2 <i>(Includes 15 days Placement)</i>	
	IT Elective Unit	
	Maths Discipline - Unit F	
	Minor Discipline C	

THIRD YEAR

Semester 1

EDBED 3027	Curriculum Assessment and Reporting	EX: EDBED4009
	Curriculum 1 Major	
	Curriculum 1 Minor	
	Minor Discipline D	

Semester 2

EDBED 3016	Aboriginal and Torres Strait Islander: Learning and Teaching	EX: EDBED3005 and EDFGC2031
EEZED 3711	Professional Experience 3 <i>(Includes 15 days Placement)</i>	
	Curriculum 2 Major	
	Curriculum 2 Minor	
	Maths Discipline - Unit G	

FOURTH YEAR

Semester 1

EDBED 4113	Transition To Profession 2	PR: EDBED3027 and EDBED2114
EEZED 4711	Professional Experience 4 <i>(Includes 15 days Placement)</i>	
	Maths Discipline - Unit H	
	Maths Discipline - Unit I	
	Maths Discipline - Unit J	

Semester 2

EDBED 4010	Differentiating for Learning and Teaching	EX: EDBED2007
EDBED 4114	Transition to the Profession 3	PR: All Courses up to Yr 4, Sem 1 and LANTITE Test CoR: EEZED4721
EDBED 4115	Teacher As Professional	PR: EDBED3027 CoR: EEZED4721
EEZED 4721	Professional Experience Final <i>(Includes 30 days Placement)</i>	
	Maths Discipline - Unit K	

Semester	Unit Code	Unit Name	Unit Rules
ELECTIVES			
Curriculum Units			
1	EDBED 3028	Mathematics Curriculum 1	EX: EDDDE3001
1	EDBED 3029	Science Curriculum 1	EX: EDDDE3002
1	EDBED 3033	Information Technology Curriculum 1	PR: Pass in 3 IT Courses EX: EDDDE3012
1	EDBED 3038	Senior Science Curriculum 1	PR: Pass in 3 Senior Science Courses EX: EDDDE3018
2	EDDDE 3101	Mathematics Curriculum 2	PR: EDBED3028 or EDDDE3001 EX: EDBED3128
2	EDDDE 3102	Science Curriculum 2	PR: EDDDE3002 or EDBED3029
2	EDDDE 3112	Information Technology Curriculum 2	PR: EDBED3033 or EDDDE3012
2	EDDDE 3118	Senior Science Curriculum 2	PR: EDBED3038 or EDDDE3018
IT Elective Units			
2	ITECH 1100	Understanding the Digital Revolution	EX: GPSIT1100
OR			
2	ITECH 1101	IT Problem Solving	EX: GPSIT1101

Semester	Unit Code	Unit Name	Unit Rules
DISCIPLINE UNITS			
Maths Discipline Units			
A	1	MATHS 1001	Modelling and Change (Introductory Level) EX: MA551
B	2	MATHS 1102	Linear Algebra and Applications EX: MATHS1005
C	2	STATS 1000	Statistical Methods
D	1	MATHS 2003	Profit, Loss and Gambling (Intermediate Level) PR: At least one introductory level maths unit or equivalent EX: MA653, MATHS1003 and MA553
E	1	MATHS 2016	Modelling Continuous Change PR: MATHS1001

F	2	MATHS 3004	Modelling the Environment	PR: MATHS2016
G	2	MATHS 3001	Modelling and Change (Advanced Level)	PR: MATHS1001 and at least 15 credit points from MATHS subject-area at any level EX: MATHS2006
H	1	STATS 2101	Statistics for Prediction	PR: MS501 or STATS1000 EX: MS602
I	1	MATHS 3007	Puzzles, Patterns and Proofs (Advanced Level)	PR: At least one intermediate level mathematics course EX: MA655 and MATHS2005
J	1	MATHS 3002	Analytics Project 1	PR: MATHS2016 or STATS2101
K	2	TBC	Please contact Course Coordinator for advice	

MINOR DISCIPLINE UNITS

Information Technology Units

A	1	ITECH 1100	Understanding the Digital Revolution	EX: GPSIT1100
B	2	ITECH 2000	Mobile Development Fundamentals	PR: ITECH1101 EX: GPSIT2000 and ITECH1300
C	2	ITECH 2001	Game Development Fundamentals	PR: ITECH1101 EX: GPSIT2001
D	1	ITECH 2003	Web Design	PR: ITECH1100 EX: ITECH2106

Environmental Studies Units

A	1	SCENV 1001	General Science – Environmental Studies	EX: SCENV1502 and SCGEO1102
B	2	SCENV 1002	Biodiversity Conservation	
C	2	SCSUS 1500	Sustainable Earth	EX: SCENV1500 and SE505
D	1	SCENV 2100	Australian Fauna	PR: SCENV1001 or SCENV1002 or SCENV1502 EX: SCENV2111

Chemistry Units

A	1	SCCHM 1001	Chemistry 1	
B	2	SCCHM 1002	Chemistry 2	
C	2	SCCHM 2002	Environmental Chemistry	PR: SCCHM1001

D	1	SCBCH 2001	Biochemistry	PR: SCCHM1002 and SCBIO1001 or SCBIO1010 EX: BTHGC2741 and SCBIO2053
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Earth Sciences Units

A	1	SCENV 1001	Environmental Studies	EX: SCENV1502 and SCGEO1102
B	2	SCGEO 1103	Planet Earth	
C	2	SCGEO 2111	General Science: Landscape Evolution	PR: SCENV1001 or SCGEO1103
OR				
C	2	SCSUS 1500	Sustainable Earth	EX: SCENV1500 and SE505
D	1	SCGEO 2106	Hydrology	PR: ENCOR1015 or MATHS1000 or SCCOR1300 EX: SX628

Biology Units

A	1	SCBIO 1001	General Science: Principles of Biology	EX: BIOGC1722 and SCBIO1010 and SCCOR1100
B	2	SCBIO 1020	Systems Biology	EX: HEALT1111 and HEALT1112
C	2	SCMOL 2010	Mammalian Genetics	PR: SCBIO1001 or SCBIO1010 or SCBIO1020
D	1	SCMIC 2001	General Microbiology	PR: SCBIO1001 or SCBIO1010

Physics Units

A	1	ENGIN 1002	Engineering Physics	EX: ENCOR1021 and ENCOR2100 and GPENG1002
B	2	ENGIN 1005	Engineering Mechanics	EX: ENCOR1000 and ENCOR1021 and GPENG1005
C	2	ENGIN 2303	Mechanism and Machine Theory	PR: ENCOR1000 or ENCOR1021 or ENGIN1005 EX: ENMEC2111
D	1	ENGIN 2402	Measurement and Computer Instrumentation	PR: ENCOR1000 or ENCOR1021 or ENGIN1002 EX: ENMTX2020 and ETMEC3260

Course Requirements

Students must complete all the core compulsory units within the course structure over 4 years (or part-time equivalent).

Each unit is usually worth 15 credit points. A total of 480 credit points is compulsory to satisfy the course requirements of Initial Teacher Education (ITE) programs, as well as a minimum of 80 days professional experience. You will also be required to successfully complete external Literacy and Numeracy tests prior to registration as a teacher.

Please note that International Students are not eligible to study this program online.

Students will need to apply for a Working with Children Check (WWCC) card before commencing their program. A copy of the WWCC card must be supplied to the University prior to commencing professional experience placements. More information can be found at the WWCC website.

Additional Information

If you are unable to, or are having difficulties enrolling in My Student Centre, please contact Student Administration for course information and assistance.

For course or credit enquiries, please contact Student Administration or the Course Coordinator.

Course Coordinator

Catherine Oxworth

E: c.oxworthy@federation.edu.au

P: +61 3 4313 7944

Student Administration

P: 1800 FED UNI (1800 333 864)

W: www.federation.edu.au/fred

International Admissions

P: +61 3 5327 9018

E: internationaladmissions@federation.edu.au

Professional Experience

For all placement/field education enquiries, please contact the Co-operative Experiential Learning office.

P: +61 3 5327 6782

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Glossary

Co-requisite (CoR):	A unit or units that must be completed concurrently with the chosen unit
Pre-requisite (PR):	A unit or units that must be completed prior to undertaking another unit
Exclusion(s)(EX):	A unit that is the equivalent to another unit & so excludes students from repeating an equivalent unit
Introductory (Intro):	Units that are coded 1000 – 1999, introductory-level units
Intermediate (Inter.):	Units that are coded 2000 – 2999, intermediate-level units
Advanced (Adv.):	Units that are coded 3000 – 3999, advanced-level units
Major/Minor:	The main subject area of study completed as part of a degree
Semester:	Designated teaching period
CR:	Credit Point value