

# Enrolment Program Structure 2019

**Program Code – TL5**

**Program Name – Bachelor of Mathematical Sciences / Bachelor of Education**

**Locations – Churchill and Mt Helen**

Course Code	Course Name	Course Rules	Locations Offered			
			BER	CHLL	MTH	ODL
<b>FIRST YEAR</b>						
<b>Semester 1</b>						
EDBED 1011	Literacy and Numeracy	Nil	X	X	X	X
EDBED 1016	Learning and Teaching ( <i>Includes 5 Days WIL</i> )	Nil	X	X	X	X
	<i>Major Discipline A (Mathematical Sciences)</i>					
	<i>Minor Discipline Elective A</i>					
<b>Semester 2</b>						
EDBED 1017	Child and Adolescent Development and Characteristics	Nil	X	X	X	X
	<i>Major Discipline B (Mathematical Sciences)</i>					
	<i>Major Discipline C (Mathematical Sciences)</i>					
	<i>Minor Discipline Elective B</i>					
<b>SECOND YEAR</b>						
<b>Semester 1</b>						
EDBED 2114	Transition to the Profession 1	PR EDBED 1016	X	X	X	X
EDDDE 2103	Designing for Learning	Nil		X	X	
	<i>Major Discipline D (Mathematical Sciences)</i>					
	<i>Major Discipline E (Mathematical Sciences)</i>					
<b>Semester 2</b>						
EDBED 2010	Diversity and Inclusion: Teaching Strategies for Diverse Learners	Nil	X	X	X	
	<i>Major Discipline F (Mathematical Sciences)</i>					
	<i>Minor Discipline Elective C</i>					
	<i>IT Elective</i>					
EEZED 2722	Professional Experience 2 ( <i>15 Days – Major</i> )	Nil	X	X	X	

Course Code	Course Name	Course Rules	Locations Offered			
			BER	CHLL	MTH	ODL
<b>THIRD YEAR</b>						
<b>Semester 1</b>						
EDBED 3016	Aboriginal and Torres Strait Islander: Learning and Teaching	PR EDBED 2010 EX EDFGC 2031 & EDBED 3005	X	X	X	
	Major Discipline Degree Curriculum Course 1					
	Minor Discipline Degree Curriculum Course 1					
	Minor Discipline Elective D					
<b>Semester 2</b>						
EDBED 3027	Curriculum, Assessment and Reporting	EX EDBED 4009				
	Major Discipline G (Mathematical Sciences)					
	Major Discipline Degree Curriculum Course 2					
	Minor Discipline Degree Curriculum Course 2					
EEZED 3721	Professional Experience 3 (15 Days – Minor)	Nil				
<b>FOURTH YEAR</b>						
<b>Semester 1</b>						
EDBED 4113	Transition to Profession 2	PR EDBED 3027 & EDBED 2114 & EDBED 1016				
	Major Discipline H (Mathematical Sciences)					
	Major Discipline I (Mathematical Sciences)					
	Major Discipline J (Mathematical Sciences)					
EEZED 4711	Professional Experience 4 (15 Days – Major and Minor)	Nil				
<b>Semester 2</b>						
EDBED 4010	Differentiating for Learning and Teaching	Nil				
EDBED 4114	Transition to the Profession 3	PR All Courses up to Yr 4, Sem 1 & LANTITE Test				
EDBED 4115	Teacher as Professional	PR EDBED 3027 CoR EEZED 4721				
	Major Discipline K (Mathematical Sciences)					
EEZED 4721	Professional Experience Final (30 Days – Primary or Secondary)	Nil				

## Curriculum Courses

Course Code	Course Name	Course Rules	Locations Offered			
			BER	CHLL	MTH	ODL
<b>Semester 1</b>						
EDBED 3028	Mathematics Curriculum 1	Nil		X	X	
EDBED 3029	Science Curriculum 1	Nil		X	X	
EDBED 3033	Information Technology Curriculum 1	Nil				X
EDBED 3038	Senior Science Curriculum 1	Nil			X	
<b>Semester 2</b>						
EDDDE 3101	Mathematics Curriculum 2	PR EDBED 3028 or EDDDE 3001			X	
EDDDE 3102	Science Curriculum 2	PR EDBED 3029 or EDDDE 3002			X	
EDDDE 3112	Information Technology Curriculum 2	PR EDBED 3033 or EDDDE 3012				X
EDDDE 3118	Senior Science Curriculum 2	PR EDBED 3038 or EDDDE 3018			X	

## Major Discipline Degree Courses

*Note Major Discipline Electives are subject to change depending on current course offerings and are revised each year*

Course Code	Course Name	Course Rules	Locations Offered			
			BER	CHLL	MTH	ODL
<b>Mathematical Sciences</b>						
A MATHS 1001	Modelling and Change	Nil		X	X	X
B MATHS 1005	Secrets of the Matrix	Nil		X	X	X
C STATS 1000	Statistical Methods	Nil	X	X	X	X
D MATHS 2016	Modelling Continuous Change	PR MATHS 1001		X	X	X
E MATHS 2003	Profit, Loss and Gambling	PR 1 x Intro Maths		X	X	X
F MATHS 2009	Space, Shape and Design	PR 2 x Maths		X	X	X
G STATS 2101	Statistics for Prediction	PR STATS 1000			X	X
H MATHS 3004	Modelling the Environment	PR MATHS 2001				X
I MATHS 3006	Modelling Reality	PR MATHS 2006	X	X	X	X
J MATHS 3007	Puzzles, Patterns and Proofs	PR 1 x Inter Maths			X	X
K MATHS 3001	Modelling and Change	PR MATHS 1001		X	X	X

## IT Elective Courses

*Note IT Elective Courses are subject to change depending on current course offerings and are revised each year*

ITECH 1100	Understanding the Digital Revolution	Nil	X	X	X	X
<i>Or</i>						
ITECH 1101	Problem Solving (For IT Minors)	Nil	X	X	X	X

## Minor Discipline Degree Courses

*Note Minor Discipline Electives are subject to change depending on current course offerings and are revised each year*

Course Code	Course Name	Course Rules	Locations Offered			
			BER	CHLL	MTH	ODL
<b>Information Technology</b>						
A ITECH 1101	I.T. Problem Solving	Nil	X	X	X	X
B ITECH 2000	Mobile Development Fundamentals	PR ITECH 1101	X	X	X	X
C ITECH 2001	Game Development Fundamentals	PR ITECH 1101	X	X	X	X
D ITECH 2003	Web Design	Nil	X	X	X	X
<b>Environmental Studies</b>						
A SCENV 1502	Environmental Studies	Nil	X	X	X	X
B SCSUS 1500	Sustainable Earth	Nil	X	X	X	X
C SCENV 1002	Biodiversity Conservation	Nil	X	X	X	X
D SCENV 2100	Australian Fauna 2	PR SCENV 1002 or 1502	X	X	X	X
<b>Chemistry</b>						
A SCCHM 1001	Chemistry 1	Nil	X	X	X	X
B SCCHM 1002	Chemistry 2	PR SCCHM 1001	X	X	X	X
C SCCHM 2002	Environmental Chemistry 1	PR SCCHM 1001	X	X		X
D SCBCH 2001	Biochemistry	PR SCCHM 1002 or SCBIO 1010	X	X	X	
<b>Earth Sciences</b>						
A SCENV 1502	Environmental Studies	Nil	X	X	X	X
B SCGEO 1103	Planet Earth	Nil			X	X
	SCSUS 1500	Sustainable Earth	Nil	X	X	X
C	Or SCGEO 2111	General Science: Landscape Evolution				X
						X
D SCGEO 2106	Hydrology	PR SCGEO 2111			X	X
<b>Biology</b>						
A SCBIO 1010	Principles of Biology	Nil	X	X	X	X
B SCBIO 1020	Systems Biology	Nil	X	X	X	X
C SCMOL 2020	Immunology	PR SCBIO 1020	X	X	X	X
D SCMOL 2010	Mammalian Genetics	PR SCBIO 1010 or 1020	X	X	X	X
<b>Physics</b>						
A ENGIN 1002	Engineering Physics	Ex ENCOR 1021 & 2100		X	X	X
B ENGIN 1005	Engineering Mechanics	Nil		X	X	X
C ENGIN 2303	Mechanics of Mechanisms	PR: ENCOR 1000 or 1021 or ENGIN 1005		X	X	X
D ENGIN 2402	Measurement and Computer Instrumentation	PR ENGIN 1000 or 1021 or 1002		X	X	X

### Program Leader

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### Student HQ

info@federation.edu.au  
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### Additional Information

If you are unable to, or are having difficulties enrolling in myStudentCentre, please contact Student HQ on 1800 333 864 or email info@federation.edu.au for program administration information and assistance

For Program or Course enquiries, please contact the TA5 Program Leader.

For all placement/professional experience enquiries, please contact the Professional Experience office on (03) 5327 6782 or at sea.professionalexperience@federation.edu.au

*Note: If you wish to apply for course credits, please contact your Program Leader or Student HQ.*

### Glossary

**Semester** – designated teaching period

**Pre-requisite (PR)** – a course or courses that must be completed prior to undertaking another course

**Co-requisite (CoR)** – a course or courses that must be completed concurrently with the chosen course

**Exclusion (EX)** – a course that is the equivalent to another course and so excludes students from repeating an equivalent course

**Major/Minor** – the main subject area of study completed as part of a degree

**Introductory (Intro)** – Courses that are coded 1000 – 1999, introductory-level courses

**Intermediate (Inter.)** – Courses that are coded 2000 – 2999, intermediate-level courses

**Advanced (Adv.)** – Courses that are coded 3000 – 3999, advanced-level courses

**CR** – Credit point value

### Campuses / Offering Location

**BER** - Berwick

**CHLL** – Churchill

**FLXK** – Flexible Delivery Berwick

**ODL** – Online

**BKIM** – Kangan Institute (Broadmeadows)

**FLXB** – Flexible Delivery Ballarat

**HOR** – Horsham

**SMB** – School of Mines (Ballarat)

**CAM** – Camp St

**FLXG** – Flexible Delivery Churchill

**MTH** – Mt Helen

**WSI** – Western Sydney Institute