

Program Structure / Rules

Program Code: TL5

Program: Bachelor of Mathematical Sciences / Bachelor of Education

Location: Mt Helen, Churchill

New/Continuing: 2021

| TERM | COURSE | | LOCATIONS OFFERED | | | |
|--------------------|-----------|---|-------------------|------|-----|-----|
| | | | BER | CHLL | MTH | ODL |
| FIRST YEAR | | | | | | |
| 1 | EDBED1011 | LITERACY AND NUMERACY | X | X | X | X |
| 1 | EDBED1016 | LEARNING AND TEACHING | X | X | X | X |
| | | Exclusion(s): EDBED1008, EDDDE1001 & EDFGC1303 | | | | |
| 1 | EEZED1711 | PROFESSIONAL EXPERIENCE: LEARNING AND TEACHING | X | X | X | X |
| 1 | | MATHS DISCIPLINE COURSE A | | | | |
| 1 | | MINOR DISCIPLINE A | | | | |
| 2 | EDBED1017 | CHILD AND ADOLESCENT DEVELOPMENT AND CHARACTERISTICS | X | X | X | X |
| | | Exclusion(s): EDBED1009, EDECE1006 & EDFGC2021 | | | | |
| 2 | | MATHS DISCIPLINE COURSE B | | | | |
| 2 | | MATHS DISCIPLINE COURSE C | | | | |
| 2 | | MINOR DISCIPLINE B | | | | |
| SECOND YEAR | | | | | | |
| 3 | EDBED2114 | TRANSITION TO THE PROFESSION 1 | X | X | X | X |
| | | Pre-Requisites: EDBED1008 or EDBED1016 or EDDDE1001 | | | | |
| | | Exclusion(s): EDECE1016 | | | | |
| 3 | EDDDE2103 | DESIGNING FOR LEARNING | | X | X | |
| | | Pre-Requisites: EDBED1003 or EDBED1016 or EDDDE1001 or EDDDE1002 | | | | |
| 3 | | MATHS DISCIPLINE COURSE D | | | | |
| 3 | | MATHS DISCIPLINE COURSE E | | | | |
| 4 | EDBED2010 | DIVERSITY AND INCLUSION: TEACHING STRATEGIES FOR DIVERSE LEARNERS | X | X | X | |
| | | Exclusion(s): EDECE1013 | | | | |
| 4 | EEZED2722 | PROFESSIONAL EXPERIENCE 2 | X | X | X | |

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|--------------------|-----------|--|---|---|---|---|
| 4 | | IT ELECTIVE COURSE - ITECH1100 or ITECH1101 | | | | |
| 4 | | MATHS DISCIPLINE COURSE F | | | | |
| 4 | | MINOR DISCIPLINE C | | | | |
| THIRD YEAR | | | | | | |
| 5 | EDBED3016 | ABORIGINAL AND TORRES STRAIT ISLANDER: LEARNING AND TEACHING | X | X | X | X |
| | | Exclusion(s): EDFGC2031 & EDBED3005 | | | | |
| 5 | | CURRICULUM 1 MAJOR | | | | |
| 5 | | CURRICULUM 1 MINOR | | | | |
| 5 | | MINOR DISCIPLINE D | | | | |
| 6 | EDBED3027 | CURRICULUM ASSESSMENT AND REPORTING | X | X | X | X |
| | | Exclusion(s): EDBED4009 | | | | |
| 6 | EEZED3721 | PROFESSIONAL EXPERIENCE 3 | X | X | X | X |
| 6 | | CURRICULUM 2 MAJOR | | | | |
| 6 | | CURRICULUM 2 MINOR | | | | |
| 6 | | MATHS DISCIPLINE COURSE G | | | | |
| FOURTH YEAR | | | | | | |
| 7 | EDBED4113 | TRANSITION TO THE PROFESSION 2 | X | X | X | |
| | | Pre-Requisite: EDBED3027 & EDBED2114 | | | | |
| 7 | EEZED4711 | PROFESSIONAL EXPERIENCE 4 | | | | |
| 7 | | MATHS DISCIPLINE COURSE H | | | | |
| 7 | | MATHS DISCIPLINE COURSE I | | | | |
| 7 | | MATHS DISCIPLINE COURSE J | | | | |
| 8 | EDBED4010 | DIFFERENTIATING FOR LEARNING AND TEACHING | X | X | X | X |
| | | Exclusion(s): EDBED2007 | | | | |
| 8 | EDBED4114 | TRANSITION TO THE PROFESSION 3 | X | X | X | |
| | | Pre-Requisite: All Courses Inc Yr4 & LANTITE Completion | | | | |
| | | Co-Requisite: EEZED4721 | | | | |
| 8 | EDBED4115 | TEACHER AS PROFESSIONAL | X | X | X | X |
| | | Pre-Requisite: EDBED3027 | | | | |
| | | Co-Requisite: EEZED4721 | | | | |
| 8 | EEZED4721 | PROFESSIONAL EXPERIENCE FINAL | X | X | X | |
| 8 | | MATHS DISCIPLINE COURSE K | | | | |

CURRICULUM COURSES

| Semester 1 | | | | | | |
|------------|-----------|--|--|--|---|---|
| 1 | EDBED3028 | MATHEMATICS CURRICULUM 1 | | | X | X |
| | | Exclusion(s): EDDDE3001 | | | | |
| 1 | EDBED3029 | SCIENCE CURRICULUM 1 | | | X | X |
| | | Exclusion(s): EDDDE3002 | | | | |
| 1 | EDBED3033 | INFORMATION TECHNOLOGY CURRICULUM 1 | | | | |
| | | Pre-Requisite(s): Pass in 3 IT Courses | | | | X |
| | | Exclusion(s): EDDDE3012 | | | | |
| 1 | EDBED3038 | SENIOR SCIENCE CURRICULUM 1 | | | | |
| | | Pre-Requisite(s): Pass in 3 Senior Science Courses | | | X | |
| | | Exclusion(s): EDDDE3018 | | | | |
| Semester 2 | | | | | | |
| 2 | EDDDE3101 | MATHEMATICS CURRICULUM 2 | | | | |
| | | Pre-Requisite(s): EDBED3028 or EDDDE3001 | | | | X |
| | | Exclusion(s): EDBED3128 | | | | |
| 2 | EDDDE3102 | SCIENCE CURRICULUM 2 | | | | |
| | | Pre-Requisite(s): EDDDE3002 or EDBED3029 | | | | X |
| 2 | EDDDE3112 | INFORMATION TECHNOLOGY CURRICULUM 2 | | | | |
| | | Pre-Requisite(s): EDBED3033 or EDDDE3012 | | | | X |
| 2 | EDDDE3118 | SENIOR SCIENCE CURRICULUM 2 | | | | |
| | | Pre-Requisite(s): EDBED3038 or EDDDE3018 | | | | X |

IT ELECTIVE COURSE

| | | | | | | |
|--|-----------|--------------------------------------|---|---|---|---|
| | ITECH1100 | UNDERSTANDING THE DIGITAL REVOLUTION | X | X | X | X |
| | OR | | | | | |
| | ITECH1101 | IT PROBLEM SOLVING | X | X | X | X |

MATHS DISCIPLINE COURSES

| | | | | | | |
|---|-----------|--|---|---|---|---|
| A | MATHS1001 | MODELLING AND CHANGE (INTRODUCTORY LEVEL) | | | | |
| | | Exclusion: MA551 | | X | X | X |
| B | MATHS1005 | SECRETS OF THE MATRIX | | | | |
| | | Exclusion: MA555 | | X | X | X |
| C | STATS1000 | STATISTICAL METHODS | X | X | X | X |
| D | MATHS2003 | PROFIT, LOSS AND GAMBLING (INTERMEDIATE LEVEL) | | | | |
| | | Pre-Requisite: At least one introductory level maths course or equivalent | | X | X | X |
| | | Exclusions: MA653, MATHS1003 and MA553 | | | | |
| E | MATHS2016 | MODELLING CONTINUOUS CHANGE | | | | |
| | | Pre-Requisite: MATHS1001 | | X | X | X |
| F | MATHS2009 | SPACE, SHAPE & DESIGN (INTERMEDIATE LEVEL) | | | | |
| | | Pre-Requisite: One mathematics course or equivalent | | X | X | X |
| | | Exclusions: MA559 and MA659 and MATHS1009 | | | | |
| G | MATHS3008 | TOPICS IN MATHEMATICS | | | | |
| | | Pre-Requisites: At least one intermediate level mathematics course or equivalent | | | X | X |
| | | Exclusion: MA758 | | | | |
| H | MATHS3004 | MODELLING THE ENVIRONMENT | | | | |
| | | Pre-Requisite: MATHS2016 | | | | X |
| I | MATHS3007 | PUZZLES, PATTERNS AND PROOFS (ADVANCED LEVEL) | | | | |
| | | Pre-Requisite: At least one intermediate level mathematics course | | | X | X |
| | | Exclusions: MA655 and MATHS2005 | | | | |
| J | MATHS3006 | MODELLING REALITY (ADVANCED LEVEL) | | | | |
| | | Pre-Requisite: MA651 or MATHS2006 | | | | |
| | | Exclusions: MA656 and MA756 and MATHS2006 | | | | |
| K | MATHS3001 | MODELLING AND CHANGE (ADVANCED LEVEL) | | | | |
| | | Pre-Requisites: MATHS1001 and at least 15 credit points from MATHS subject-area at any level | | X | X | X |
| | | Exclusion: MATHS2006 | | | | |

MINOR DISCIPLINE COURSES

INFORMATION TECHNOLOGY

| | | | | | | |
|----------|-----------|--------------------------------------|---|---|---|---|
| A | ITECH1100 | UNDERSTANDING THE DIGITAL REVOLUTION | X | X | X | X |
| B | ITECH2000 | MOBILE DEVELOPMENT FUNDAMENTALS | X | X | X | X |
| | | Pre-Requisite: ITECH1101 | | | | |
| | | Exclusion: ITECH1300 | | | | |
| C | ITECH2001 | GAME DEVELOPMENT FUNDAMENTALS | X | X | X | X |
| | | Pre-Requisite: ITECH1101 | | | | |
| D | ITECH2003 | WEB DESIGN | X | X | X | X |
| | | Pre-Requisite: ITECH1100 | | | | |
| | | Exclusion: ITECH2106 | | | | |

ENVIRONMENTAL STUDIES

| | | | | | | |
|----------|-----------|---|---|---|---|---|
| A | SCENV1001 | GENERAL SCIENCE – ENVIRONMENTAL STUDIES | X | X | X | X |
| C | SCENV1002 | BIODIVERSITY CONSERVATION | X | X | X | X |
| D | SCENV2100 | AUSTRALIAN FAUNA | X | X | X | X |
| | | Pre-Requisite(s): SCENV1001 or SCENV1002 or SCENV1502 | | | | |
| | | Exclusion(s): SCENV2111 | | | | |
| B | SCSUS1500 | SUSTAINABLE EARTH | X | X | X | X |
| | | Exclusion(s): SCENV1500 and SE505 | | | | |

CHEMISTRY

| | | | | | | |
|----------|-----------|--|---|---|---|---|
| D | SCBCH2001 | BIOCHEMISTRY | X | X | X | X |
| | | Pre-Requisite(s): BIOGC1722 or SCBIO1001 or SCBIO1010 or SCMED1014 and CHMGC1022 or SCCHE1012 or SCCHM1002 | | | | |
| | | Exclusion(s): BTHGC2741 and SCBIO2053 | | | | |
| A | SCCHM1001 | CHEMISTRY 1 | X | X | X | X |
| B | SCCHM1002 | CHEMISTRY 2 | X | X | X | X |
| C | SCCHM2002 | ENVIRONMENTAL CHEMISTRY | X | X | | X |
| | | Pre-Requisite(s): SCCHM1001 | | | | |

EARTH SCIENCES

| | | | | | | | |
|-----------------------------------|-----------|---|---|---|---|---|--|
| A | SCENV1001 | GENERAL SCIENCE – ENVIRONMENTAL STUDIES | X | X | X | X | |
| | | Exclusion(s): ENVGC1022 and ENVGC1711 and SCENV1502 and SCGEO1102 | | | | | |
| B | SCGEO1103 | PLANET EARTH | | | X | X | |
| D | SCGEO2106 | HYDROLOGY | | | X | X | |
| | | Pre-Requisite(s): ENCOR1015 or MATHS1000 or SCCOR1300 | | | | | |
| | | Exclusion(s): SX628 | | | | | |
| C | SCGEO2111 | GENERAL SCIENCE: LANDSCAPE EVOLUTION | | | X | X | |
| | | Pre-Requisite(s): SCENV1502 or SCGEO1102 or SCGEO1106 | | | | | |
| | OR | | | | | | |
| | SCSUS1500 | SUSTAINABLE EARTH | X | X | X | X | |
| Exclusion(s): SCENV1500 and SE505 | | | | | | | |

BIOLOGY

| | | | | | | |
|----------|-----------|---|---|---|---|---|
| A | SCBIO1001 | GENERAL SCIENCE: PRINCIPLES OF BIOLOGY | X | X | X | X |
| | | Exclusion(s): BIOGC1722 and SCBIO1010 and SCCOR1100 | | | | |
| B | SCBIO1020 | SYSTEMS BIOLOGY | X | X | X | X |
| | | Exclusion(s): HEALT1111 and HEALT1112 | | | | |
| D | SCMOL2010 | MAMMALIAN GENETICS | X | X | X | X |
| | | Pre-Requisite(s): SCBIO1001 or SCBIO1010 or SCBIO1020 | | | | |
| C | SCMOL2020 | IMMUNOLOGY | X | X | X | X |
| | | Pre-Requisite(s): BIOGC1711 or SCBIO1020 or SCMED1014 | | | | |
| | | Exclusion(s): IMMGC3802 and SCMED2020 | | | | |

PHYSICS

| | | | | | | | |
|----------|-----------|--|--|--|---|---|---|
| A | ENGIN1002 | ENGINEERING PHYSICS | | | X | X | X |
| | | Exclusion(s): ENCOR1021 and ENCOR2100 | | | | | |
| B | ENGIN1005 | ENGINEERING MECHANICS | | | X | X | X |
| | | Exclusion(s): ENCOR1000 and ENCOR1021 | | | | | |
| C | ENGIN2303 | MECHANISM AND MACHINE THEORY | | | X | X | X |
| | | Pre-Requisite(s): ENCOR2030 or ENGIN2301 | | | | | |
| | | Exclusion(s): ENCIV2310 | | | | | |

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|---|-----------|---|---|---|---|
| D | ENGIN2402 | MEASUREMENT AND COMPUTER INSTRUMENTATION | X | X | X |
| | | Pre-Requisite(s): ENCOR1000 or ENCOR1021 or ENGIN1002 | | | |
| | | Exclusion(s): ENMTX2020 and ETMEC3260 | | | |

Program Requirements

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

Each course is usually worth 15 credit points. A total of 480 credit points is compulsory to satisfy the program 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 myStudentCentre, please contact Student HQ for program administration information and assistance.

For Program or credit enquiries, please contact Student HQ or the Program Coordinator.

Professional Experience

For all placement/field education enquiries, please contact the Professional Experience office.

P: (03) 5327 6782

E: sea.professionalexperience@federation.edu.au

Program Coordinator

Anitra Goriss- Hunter

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Student HQ

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Glossary

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

Campuses / Offering Locations

BER – Berwick

MTH – Mt Helen

CHLL – Churchill

ODL – Online