

Handbook 2020

Coursecode

B1368

BACHELOR OF EDUCATION (SECONDARY TEACHING)

Murdoch University

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Cancellation of Courses, Majors, Minors and Units

The University reserves the right to cancel, without notice, any course, major, minor or unit if the number of students enrolled falls below limits set by the University or in other unforeseen circumstances.

Alternative Formats

Handbook home page:

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Group	Course	Offerings
Education	Mathematics Major Teaching Area (BEd(Sec))	<ul style="list-style-type: none"> • Murdoch campus (internal) • Some units only; Murdoch campus (external)

EDUCATION

MATHEMATICS MAJOR TEACHING AREA (BED(SEC))

Education

Bachelor of Education (Secondary Teaching) (BEd(Sec)) in Mathematics Major Teaching Area

Course Codes: B1368

Duration: 4 years Full-time or part-time equivalent. Mid year commencement may result in a longer duration due to unit availability.

Availability:

- Murdoch campus (internal)
 Some units only: Murdoch campus (external)

As a result of undertaking this major area of study students will develop a detailed and coherent body of knowledge and skills. Learning outcomes access an understanding of principles and concepts for the professional practice as a teacher of ATAR Mathematics.

Upon successfully completing the B.Ed (Secondary Teaching), graduates may apply for registration to teach a Major teaching area and a Minor Teaching area at the secondary school level. Students will study both areas concurrently within the Bachelor of Education. The Bachelor of Education course learning outcomes address both AQF Level 7 and the Graduate Teacher Standards established by the Australian Institute for Teaching and School Leadership (AITSL), the professional standards for initial registration as a teacher in Australia.

As a result of this course students will develop a broad and coherent body of knowledge and skills, an underlying understanding of principles and concepts for their professional practice as a teacher and/or for another professional role in education.

Selection of Major Teaching Area and Minor Teaching Area options are limited to the following areas/subjects in secondary schools:

Major Teaching Areas:

English
Humanities and Social Sciences (Geography and Economics; History; OR Politics)
Mathematics (Advanced Mathematics OR Mathematics)
Physical Education (Must be combined with Health Education Minor Teaching area)
Science (Biology and Environmental Science, Biology and Human Biology, Chemistry (must be combined with Mathematics Minor Teaching area), Earth and
Environmental Science, Physics (must be combined with Mathematics Minor Teaching area)

Minor Teaching Areas:

English
Health Education (Must be combined with Physical Education Major Teaching area)
Humanities and Social Sciences
Mathematics Science, Biological Science, Chemistry, Earth and Environmental Science, Physics)
Advice about suitable teaching areas/subjects may be obtained from the Academic Chair (Secondary).
Professional Experience: There are 80 days of mentored teaching practice in this course.
This course requires students to undertake work-based training through a compulsory work-based placement as part of their studies.

Admission Requirements (Onshore):

As per normal undergraduate requirements

Excluded Double Majors:

Advanced Mathematics Major Teaching Area; Biology and Environmental Science Major Teaching Area; Biology and Human Biology Major Teaching Area; Chemistry Major Teaching Area; Earth and Environmental Science Major Teaching Area; English Major Teaching Area; Geography and Economics (HASS) Major Teaching Area; Physical Education Major Teaching Area; Physics Major Teaching Area; History (HASS) Major Teaching Area; Politics (HASS) Major Teaching Area

Main Research Areas:

Education

Recommended Co-Majors:

Biological Science Minor Teaching Area
Chemistry Minor Teaching Area
Earth and Environmental Science Minor Teaching Area
English Minor Teaching Area
Humanities and Social Sciences Minor Teaching Area
Physics Minor Teaching Area

Excluded Co-Majors:

Mathematics Minor Teaching Area
Health Education Minor Teaching Area

Course Structure - 96 credit points

Course Core - 45 credit points

Year 1 - 12 credit points

Course Core Units - 12 credit points

EDN199 SimLab Entry Screening - 0 points
MURDOCH: S1E-internal, S2E-internal

EDN298 LANTITE - Literacy - 0 points
MURDOCH: AU7-external, AW1-external, SP2-external, SS2-external

EDN299 LANTITE - Numeracy - 0 points
MURDOCH: AU7-external, AW1-external, SP2-external, SS2-external

BED100 Ideas in Education - 3 points
MURDOCH: S1E-internal, S1E-external, S2E-internal, S2E-external

BED150 Understanding Teachers' Work - 3 points
MURDOCH: S2E-internal, S2E-external

EDN111 Language for Learning and Teaching - 3 points
MURDOCH: S1E-internal, S1E-external

EDN113 Living and Learning with Technology - 3 points
MURDOCH: S1E-internal, S1E-external

Year 2 - 9 credit points

Course Core Units - 9 credit points

BED200 Assessment and Action Research - 3 points
MURDOCH: S2E-internal, S2E-external

EDN221 Learning and Teaching - 3 points
MURDOCH: S1E-internal, S1E-external

EDN2101 Professional Experience: BEd Secondary Teaching - 3 points
MURDOCH: S2E-external

Year 3 - 9 credit points

Course Core Units - 9 credit points

EDN340 Professional Experience Secondary Teaching - 3 points
MURDOCH: S1E-internal, S1E-external

EDN353 Country, Cultures, Peoples: Aboriginal and Torres Strait Islander Perspectives Across the Curriculum - 3 points
MURDOCH: S1E-internal, S1E-external

EDN358 Creating and Managing Effective Learning Environments

- 3 points
MURDOCH: S1E-internal, S1E-external

Year 4 - 15 credit points

Course Core Units - 15 credit points

EDN451 Adolescent Family and Community Health - 3 points
MURDOCH: UA4-internal

EDN449 Inclusive Education - 3 points
MURDOCH: S2E-internal, S2E-external

EDN499 Quality Teaching Performance Assessment - 3 points
MURDOCH: UW1-internal, UW1-external, YU2-internal,
YU2-external

EDN4301 Final Professional Experience 2: Secondary Teaching - 6
points
MURDOCH: ST2-placement, ST3-placement

Major - 30 credit points

Choose one of the Major Teaching Areas below:

MJ-AMAS Advanced Mathematics Major Teaching Area
MJ-BEVS Biology and Environment Science Major Teaching Area
MJ-BHBS Biology and Human Biology Major Teaching Area
MJ-CHES Chemistry Major Teaching Area
MJ-EESS Earth and Environmental Science Major Teaching Area
MJ-ENGS English Major Teaching Area
MJ-HISS History (HASS) Major Teaching Area
MJ-GECS Geography and Economics (HASS) Major Teaching Area
MJ-MAMS Mathematics Major Teaching Area
MJ-PHES Physical Education Major Teaching Area
MJ-PHSS Physics Major Teaching Area
MJ-POLS Politics (HASS) Major Teaching Area

Major Structure - 30 credit points

100 Level Units - 12 credit points

Core Units - 12 credit points

MAS161 Calculus and Matrix Algebra - 3 points
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

MAS162 Foundations of Discrete Mathematics - 3 points
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

MAS164 Fundamentals of Mathematics - 3 points
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

MAS182 Applied Mathematics - 3 points
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

100 Level and 200 Level Units - 9 credit points

Core Units - 6 credit points

MAS183 Statistical Data Analysis - 3 points
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

MAS222 Probability and Statistical Inference - 3 points
MURDOCH: S1-internal, S1-external

Specified Electives - 3 credit points

Select from the following:

MAS221 Mathematical Modelling - 3 points
MURDOCH: S2-internal, S2-external

MAS223 Applied Statistics - 3 points
MURDOCH: S2-internal, S2-external

300 Level Units and 400 Level Units - 9 credit points

Core Units - 6 credit points

EDN373 Teaching Mathematics - 3 points
MURDOCH: S1E-external

EDN473 Teaching Senior Secondary Mathematics - 3 points

MURDOCH: S1E-external

Specified Electives - 3 credit points

Select from the following:

MAS353 Statistical Design and Data Analysis - 3 points
MURDOCH: S2-internal, S2-external

MAS354 Modelling and Simulation - 3 points
MURDOCH: S2-internal, S2-external

Co-Major - 21 credit points

Choose one of the Minor Teaching Areas:

CJ-BESM Biological Science Minor Teaching Area
CJ-CHEM Chemistry Minor Teaching Area
CJ-EESM Earth and Environmental Science Minor Teaching Area
CJ-ENGM English Minor Teaching Area
CJ-HEEM Health Education Minor Teaching Area
CJ-HSSM Humanities and Social Studies (HASS) Minor Teaching
Area
CJ-MATM Mathematics Minor Teaching Area
CJ-PHSM Physics Minor Teaching Area

PREREQUISITES

Adolescent Family and Community Health (EDN451)

Enrolment in a Bachelor of Education Secondary

Applied Mathematics (MAS182)

MAS164 Fundamentals of Mathematics OR at least a pass in the Year 11 course Introduction to Calculus together with a final scaled score of 55% or more in TEE Applicable Mathematics OR a final scaled score of 55% or higher in ATAR Mathematics Methods (WACE Mathematics 3C/3D).

Applied Statistics (MAS223)

MAS183 Statistical Data Analysis.

Assessment and Action Research (BED200)

Successful completion of EDN111 Language for Learning and Teaching AND BED150/EDN112/EDN1121 Understanding Teachers' Work OR EDU101/1011 Introduction to Teaching AND successful completion of EDN221 Learning and Teaching.

Calculus and Matrix Algebra (MAS161)

MAS182 Applied Mathematics OR a final scaled score of 55% or more in TEE Calculus or equivalent OR a final scaled score of 55% or higher in ATAR Mathematics Specialist (or WACE Mathematics: Specialist 3C/3D).

Country, Cultures, Peoples: Aboriginal and Torres Strait Islander Perspectives Across the Curriculum (EDN353)

Enrolment in an initial teacher education course.
Successful completion of EDN221 Learning and Teaching

Creating and Managing Effective Learning Environments (EDN358)

Co-enrolment in, or successful completion of, EDN221 Learning and Teaching or EDU245 Learning and Assessment Processes or equivalent. Students without the prerequisite should consult the Unit Coordinator.

Final Professional Experience 2: Secondary Teaching (EDN4301)

Enrolment in the final semester of the Bachelor of Education (Secondary). Students must co enrol in EDN4303 Final Professional Experience 1: Secondary Teaching, and have successfully completed all other required units in the course.

Foundations of Discrete Mathematics (MAS162)

MAS164 Fundamentals of Mathematics/MAS182/MAS161 OR a final scaled score of 55% or more in ATAR Mathematics Applications or WACE Mathematics 2C/2D OR a final scaled score of 50% or more in ATAR Mathematics Methods or WACE Mathematics 3A/3B (or higher) OR equivalent.

Fundamentals of Mathematics (MAS164)

Nil.

Ideas in Education (BED100)

Enrolment in an initial teacher education course.

Inclusive Education (EDN449)

Enrolment in the Bachelor of Education and successful completion of or enrolment in EDU245 Learning and Assessment Processes or EDU241 Processes of Learning or EDU242 Learning and Assessment: Theory and Practice or equivalent; or EDN221/EDN208 Learning, Teaching and Assessment 1 or EDN222 Learning, Teaching and Assessment 2 or BED200 Assessment and Action Research or enrolment in Graduate Certificate in Inclusive Education, Graduate Diploma in Education (Secondary); Graduate Diploma in Education Studies. Students without the prerequisite should consult the Unit Coordinator.

LANTITE - Literacy (EDN298)

Nil.

LANTITE - Numeracy (EDN299)

Nil.

Language for Learning and Teaching (EDN111)

Enrolment in an initial teacher education course.

Learning and Teaching (EDN221)

Successful completion of BED100 Ideas in Education, and BED150/EDN112/EDN1121 Understanding Teachers' Work, and EDN111 Language for Learning and Teaching

Living and Learning with Technology (EDN113)

Enrolment in an initial teacher education course or permission from the Unit Coordinator.

Mathematical Modelling (MAS221)

MAS182 Applied Mathematics or MAS161 Calculus and Matrix Algebra or equivalent.

Modelling and Simulation (MAS354)

MAS161 Calculus and Matrix Algebra OR MAS221/MAS208 Mathematical Modelling OR both MAS182 Applied Mathematics AND MAS167 Computational Mathematics/MAS162 Foundations of Discrete Mathematics

Probability and Statistical Inference (MAS222)

MAS180 Introduction to Statistics OR MAS183 Statistical Data Analysis OR MAS223 Applied Statistics OR MAS224/MAS230 Biostatistical Methods OR MAS284 Applied Statistics and Process Management. In addition, students must have a calculus background equivalent to at least MAS182 Applied Mathematics.

Professional Experience Secondary Teaching (EDN340)

Enrolment in a Bachelor of Education (Secondary); successful completion of EDN2101 Professional Experience: BEd Secondary Teaching. Students must be currently enrolled in or have successfully completed the relevant Curriculum unit to be eligible for this placement in schools.

Professional Experience: BEd Secondary Teaching (EDN2101)

Successful completion of EDN221/EDN208 Learning and Teaching; and concurrent enrolment in or completion of BED200 Assessment and Action Research.

Quality Teaching Performance Assessment (EDN499)

Co-enrolment in either EDN435 Final Professional Experience: Early Childhood Teaching OR EDN4300 Final Professional Experience: Primary Teaching OR EDN4301 Final Professional Experience: Secondary Teaching OR EDN615 Final Professional Experience: Research in Practice OR EDN681 Final Professional Experience Secondary: Research in Practice OR EDN510 Final Professional Experience 2: Secondary Graduate Diploma.

Successful completion of your Final Professional Experience Unit is required before you can undertake Component D: Oral Presentation

SimLab Entry Screening (EDN199)

Nil

Statistical Data Analysis (MAS183)

Nil.

Statistical Design and Data Analysis (MAS353)

MAS222/MAS278 Probability and Statistical Inference OR MAS223 Applied Statistics OR MAS224/MAS230 Biostatistical Methods OR MAS284 Applied Statistics and Process Management.

Teaching Mathematics (EDN373)

Successful completion of EDN2101 Professional Experience: BEd Secondary Teaching.

Teaching Senior Secondary Mathematics (EDN473)

Successful completion of EDN373 Teaching Mathematics

Understanding Teachers' Work (BED150)

Successful completion of BED100 Ideas in Education and EDN199 SimLab

Entry Screening. Enrolment in an initial teacher education course or permission from the Unit Coordinator.

Personal Study Plan

Unit Sets:

Year	Semester 1	Semester 2
1		
2		
3		
4		