

# Handbook 2020

## Coursecode

---

B1368

BACHELOR OF EDUCATION (SECONDARY TEACHING)

**Murdoch University**

---

Correct as at: 30 May 2020 at 1:36am

Correct as at: 30 May 2020 at 1:36am

The information contained within this publication was correct as at the generated date shown above but is subject to amendment without notice. Enquiries concerning its contents should be addressed to:

University Secretary  
Murdoch University  
South Street  
Murdoch  
Western Australia 6150

Telephone: (08) 9360 6000

Facsimile: (08) 9360 6847

<http://www.murdoch.edu.au>

TEQSA Number PRV12163; CRICOS Provider Code: 00125J

#### **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:

<http://handbook.murdoch.edu.au>

This publication can also be provided in alternative formats by contacting the Equity and Social Inclusion Office at Murdoch University

Telephone: (08) 9360 6084

Facsimile: (08) 9360 6502

[equity@murdoch.edu.au](mailto:equity@murdoch.edu.au)

<http://goto.murdoch.edu.au/EquitySocialInclusion>

ISSN 0815-9068

Published by

University Secretary's Office

Murdoch University



© Murdoch University 2020

This Handbook, and its sections as individual works, is licensed under a Creative Commons Attribution Noncommercial No Derivative Works Australia 2.5 licence. You may download, reproduce, communicate, print and distribute copies of the Handbook (or any part of it) as long as it is for non-commercial purposes, you do not alter the content, and you attribute Murdoch University as the original author. For more information on this licence, see <http://creativecommons.org/licenses/by-nc-nd/2.5/au/>

**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.

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

## EDUCATION

### PHYSICS MAJOR TEACHING AREA (BED(SEC))

#### Education

*Bachelor of Education (Secondary Teaching) (BEd(Sec)) in Physics 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) <br/> 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 Science (Physics).

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

#### Main Research Areas:

Education

#### Recommended Co-Majors:

Mathematics Minor Teaching Area

#### Excluded Co-Majors:

Biological Science Minor Teaching Area  
Chemistry Minor Teaching Area  
Earth and Environmental Science Minor Teaching Area  
English Minor Teaching Area  
Health Education Minor Teaching Area  
Humanities and Social Sciences Minor Teaching Area  
Physics 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: S2E-internal, S2E-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: 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 - 9 credit points**

##### **Core Units - 6 credit points**

CHE144 Foundations of Chemistry - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

PEN152 Principles of Physics - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

##### **Specified Electives - 3 credit points**

Select from the following:

PEN120 General Physics - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

BIO103 Environmental Biology - 3 points  
MURDOCH: S1-internal, S1-external

##### **200 Level Units - 9 credit points**

##### **Core Units - 6 credit points**

PEN202 Thermodynamics for Physics and Nanotechnology - 3 points  
MURDOCH: S2-internal, S2-external

PEN231 Modern Physics - 3 points  
MURDOCH: S1-internal, S1-external

##### **Specified Electives - 3 credit points**

Select from the following:

CHE140 Fundamentals of Chemistry - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

PEN261 Applications of Nanotechnology - 3 points  
MURDOCH: S1-internal, S1-external

##### **300 Level Units and 400 Level Units - 12 credit points**

##### **Core Units - 12 credit points**

PEN317 Physics of Materials - 3 points  
MURDOCH: S2-internal, S2-external

PEN332 Electromagnetism - 3 points  
MURDOCH: S1-internal, S1-external

EDN376 Teaching Science - 3 points  
MURDOCH: S1E-internal, S1E-external

EDN476 Teaching Senior Secondary Science - 3 points  
MURDOCH: AU7-internal, AU7-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

### **Applications of Nanotechnology (PEN261)**

PEN152/PEC152 Principles of Physics and MAS161 Calculus and Matrix Algebra.

### **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.

### **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

### **Electromagnetism (PEN332)**

PEN152 Principles of Physics and MAS161 Calculus and Matrix Algebra.  
Highly recommended: MAS220 Mathematical Methods.

### **Environmental Biology (BIO103)**

Nil.

### **Final Professional Experience 2: Secondary Teaching (EDN4301)**

Enrolment in the final semester of the Bachelor of Education (Secondary).  
Concurrent enrolment in EDN499 Quality Teaching Performance Assessment (QTPA).  
Successful completion of EDN298 LANTITE Literacy, EDN299 LANTITE Numeracy and 87 credit points

### **Foundations of Chemistry (CHE144)**

A thorough knowledge of Chemistry ATAR is assumed. Students who did not achieve a final scaled score of 50 percent or more in Chemistry ATAR within the three years immediately preceding this enrolment are required to pass CHE140 Fundamentals of Chemistry before enrolling in this unit.

### **Fundamentals of Chemistry (CHE140)**

Knowledge of chemistry to the level of Year 10 (fourth year of WA secondary school) or equivalent and reasonable grounding in basic mathematics are assumed.

**General Physics (PEN120)**

Mathematics 3C/3D or MAS164 Fundamentals of Mathematics are strongly recommended. MAS164 Fundamentals of Mathematics may be taken concurrently.

**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 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

**Modern Physics (PEN231)**

MAS161 Calculus and Matrix Algebra and PEC152/PEN152 Principles of Physics.

**Physics of Materials (PEN317)**

CHE140 Fundamentals of Chemistry/PEC140 Introduction to Chemistry or CHE144 Foundations of Chemistry/PEC144 Chemical Principles; PEN231/PEC231 Modern Physics, PEC302/PEN202 Thermodynamics for Physics and Nanotechnology.

**Principles of Physics (PEN152)**

Concurrent enrolment in MAS182 Applied Mathematics or MAS161 Calculus and Matrix Algebra; plus a minimum C score (60% or more) in WACE ATAR Physics or a pass in PEN120 General Physics.

**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

**Teaching Science (EDN376)**

Successful completion of EDN2101 Professional Experience: BEd Secondary Teaching.

**Teaching Senior Secondary Science (EDN476)**

Successful completion of EDN376 Teaching Science.

**Thermodynamics for Physics and Nanotechnology (PEN202)**

PEN152/PEC152 Principles of Physics and MAS161 Calculus and Matrix Algebra or MAS182 Applied 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		