

# Handbook 2020

## Coursecode

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B1317

Bachelor of Science (BSc) in Cognitive Neuroscience and Health  
Psychology

**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.

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**Cancellation of Courses, Majors, Minors and Units**

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| <b>Group</b>      | <b>Course</b>                                      | <b>Offerings</b>            |
|-------------------|--|-----------------------------|
| <b>Psychology</b> | Cognitive Neuroscience and Health Psychology (BSc) | • Murdoch campus (internal) |

## PSYCHOLOGY

### COGNITIVE NEUROSCIENCE AND HEALTH PSYCHOLOGY (BSC)

#### Availability:

- Murdoch campus (internal)

Course Codes: B1317 B1317A

The study of psychology is a quest to understand behaviour, relationships and the workings of the human mind. In this major students will develop an appreciation of the foundations of psychological knowledge and how modern scientific research methods are used to further the understanding of our differences and similarities as human beings. The BSc (Cognitive Neuroscience and Health Psychology) is intended to introduce students to exciting new developments in neuroscience, cognition, perception, psychophysiology, drug dependency, clinical neuropsychology, and abnormal behaviour.

Students wishing to pursue a career as a registered psychologist should either combine this major with the Social and Developmental Psychology major (offered in the BA), or with the Social and Developmental Psychology minor in order to meet the requirements of a three-year Psychology sequence fully accredited by the Australian Psychology Accreditation Council, and recognised by the Australian Psychological Society. Either of these can be completed alongside the Cognitive Neuroscience and Health Psychology major within the normal 3-year timeframe for a Bachelor's degree. Graduates are then eligible to apply for a fourth year of study in psychology, from which they can proceed to provisional registration as a psychologist, or to further study at a graduate level.

Students not wishing to become registered psychologists may elect to take a double major in a complementary field, such as biomedical science, physiology, health, rehabilitation, etc.

Murdoch's Bachelor of Science is a flexible degree which gives you the opportunity to build deep understanding and practical experience as well as to supplement your studies by engaging with industry and the community on relevant problems. You can even undertake studies through another discipline to broaden your understanding of the way in which science operates in relation to social, business, health and policy environments.

#### Excluded Double Majors:

Psychology

Psychology

Bachelor of Science (BSc) in Cognitive Neuroscience and Health Psychology

Duration: 3 years full-time or part-time equivalent

#### Main Research Areas:

The emphasis on neuroscience in the Cognitive Neuroscience and Health Psychology major will be particularly useful to those contemplating a research career in clinical or experimental psychology.

#### Recommended Minors:

Social and Developmental Psychology

#### Admission Requirements (Onshore):

As per normal undergraduate admission requirements.

#### Excluded Minors:

Neuroscience

#### Employment Prospects:

Cognitive Neuroscience and Health Psychology can serve as a pathway to careers in psychology and counselling. It will also be valuable to students seeking a career in such related fields as speech pathology, occupational and public health, or data analysis. Some jobs may require additional qualifications.

### Course Structure - 72 credit points

#### Part I - 24 credit points

##### Year 1 - 24 credit points

##### Transition Unit - 3 credit points

BSC100 Building Blocks for Science Students - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

##### Breadth Unit for Degree - 3 credit points

MSP100 Career Learning: Managing Your Career - 3 points  
MURDOCH: S1-external, S2-external

##### Core Units - 9 credit points

PSY141 Introduction to Psychological Science - 3 points  
MURDOCH: S1-internal, S2-internal

PSY173 Introduction to Psychological Research Methods - 3 points  
MURDOCH: S2-internal

PSY172 Introduction to Psychological Health and Wellbeing - 3 points  
MURDOCH: S2-internal

##### General Electives - 9 credit points

Select from any 100-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

#### Part II - 48 credit points

##### University-Wide Breadth Units - 6 credit points

Select from the prescribed list of University-Wide Breadth Units. A unit cannot be used to satisfy both this Breadth Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

##### Year 2 - 21 credit points

##### Research Skills Unit - 3 credit points

The Research Skills unit to be taken will depend on the student's Primary Major enrolment. Select from the following.

##### For Primary Major in Cognitive Neuroscience and Health Psychology

BSC201 Psychology: Measurement, Design and Analysis - 3 points  
MURDOCH: S1-internal

##### For Primary Majors in the Health Sciences, as listed

Primary Major in Chiropractic Science, Exercise Physiology, Movement Science, or Sport and Health Science:

BSC206 Introduction to Research Methodology and Evidence Based Practice - 3 points  
MURDOCH: S2-internal

##### For All Other Primary Majors excluding Information Technology

Select from the Research Skills Unit List recommended for each major. A unit cannot be used to satisfy both this Research Skills Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

##### Core Units - 9 credit points

PSY294 Psychology: Cognitive Processes - 3 points  
MURDOCH: S2-internal

PSY297 Psychology: Sensation and Perception - 3 points  
MURDOCH: S2-internal

PSY251 Psychology: Biological Bases of Behaviour - 3 points  
MURDOCH: S1-internal

### **General Electives - 9 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

### **Year 3 - 21 credit points**

#### **Research Skills Unit - 3 credit points**

The Research Skills unit to be taken will depend on the student's Primary Major enrolment. Select from the following.

#### **For Primary Major in Cognitive Neuroscience and Health Psychology**

BSC302 Advanced Quantitative Research Methods - 3 points  
MURDOCH: S2-internal

#### **For Primary Majors in the Health Sciences, as listed**

Primary major in Chiropractic Science, Movement Science, Sport and Health Science:

BSC306 Research and Evidence Based Practice - 3 points  
MURDOCH: S1-internal

#### **For All Other Primary Majors excluding Information Technology**

Select from the Research Skills Unit List recommended for each major. A unit cannot be used to satisfy both this Research Skills Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

### **Core Units - 9 credit points**

PSY388 Psychology: Abnormal Behaviour - 3 points  
MURDOCH: S2-internal

PSY389 Psychology: Drugs and Dependence - 3 points  
MURDOCH: S1-internal

PSY396 Psychology: Cognitive Neuroscience - 3 points  
MURDOCH: S2-internal

### **General Electives - 9 credit points**

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

### **Research Skills Unit List**

#### **Animal Health Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
Not available this year

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

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

ENV303 GIS for Environmental Management and Planning - 3

points  
<span data-type="offering" data-unit="ENV303">MURDOCH: S2-internal (quota of 70 places), S2-external (quota of 20 places)</span>

COM103 Foundations of Communication - 3 points  
MURDOCH: S2-internal, S2-external

BMS317 Human Pharmacology - 3 points  
MURDOCH: S1-internal

#### **Animal Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
Not available this year

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

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

ENV303 GIS for Environmental Management and Planning - 3 points  
<span data-type="offering" data-unit="ENV303">MURDOCH: S2-internal (quota of 70 places), S2-external (quota of 20 places)</span>

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

COM103 Foundations of Communication - 3 points  
MURDOCH: S2-internal, S2-external

#### **Crop and Pasture Science**

BSC200 Research in the Physical and Life Sciences - 3 points  
Not available this year

ENV303 GIS for Environmental Management and Planning - 3 points  
<span data-type="offering" data-unit="ENV303">MURDOCH: S2-internal (quota of 70 places), S2-external (quota of 20 places)</span>

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

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

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BIO257 Australian Biodiversity - 3 points  
MURDOCH: S2-internal

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

#### **Biological Sciences Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
Not available this year

ENV303 GIS for Environmental Management and Planning - 3 points  
<span data-type="offering" data-unit="ENV303">MURDOCH:

S2-internal (quota of 70 places), S2-external (quota of 20 places)</span>

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

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

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

BIO377 Marine Ecology - 3 points  
MURDOCH: S1-internal

BIO388 Forensic Science and Miscarriages of Justice - 3 points  
MURDOCH: W-internal

CHE207 Chemical Analysis - 3 points  
MURDOCH: S1-internal, S1-external

BIO393 Tropical Marine Biology - 3 points  
<span data-type="offering" data-unit="BIO393">MURDOCH:  
W-internal (quota of 40 places)</span>

### **Conservation and Wildlife Biology Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
Not available this year

ENV303 GIS for Environmental Management and Planning - 3 points  
<span data-type="offering" data-unit="ENV303">MURDOCH:  
S2-internal (quota of 70 places), S2-external (quota of 20 places)</span>

BIO246 Microbiology - 3 points  
MURDOCH: S1-internal

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
MURDOCH: S2-internal

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

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points  
MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
MURDOCH: S1-internal

BIO377 Marine Ecology - 3 points  
MURDOCH: S1-internal

ENV328 Environmental Policy and Law - 3 points  
MURDOCH: S1-internal, S1-external

SUS305 Economics of Sustainability - 3 points  
MURDOCH: W-internal, W-external

COD302 Creative Ways to Work with Community - 3 points  
MURDOCH: S2-internal, S2-external

BIO247 Biochemistry - 3 points  
MURDOCH: S2-internal

ENV332 Managing Wetlands and Water - 3 points  
MURDOCH: S2-internal, S2-external

BIO393 Tropical Marine Biology - 3 points  
<span data-type="offering" data-unit="BIO393">MURDOCH:  
W-internal (quota of 40 places)</span>

### **Environmental Management and Sustainability Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
Not available this year

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

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO393 Tropical Marine Biology - 3 points  
<span data-type="offering" data-unit="BIO393">MURDOCH:  
W-internal (quota of 40 places)</span>

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

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

ENV332 Managing Wetlands and Water - 3 points  
MURDOCH: S2-internal, S2-external

ENG341 Water Conservation and Auditing - 3 points  
MURDOCH: S1-internal, S1-external

COM103 Foundations of Communication - 3 points  
MURDOCH: S2-internal, S2-external

BIO257 Australian Biodiversity - 3 points  
MURDOCH: S2-internal

SUS305 Economics of Sustainability - 3 points  
MURDOCH: W-internal, W-external

COD302 Creative Ways to Work with Community - 3 points  
MURDOCH: S2-internal, S2-external

ENV241 Ecology - 3 points  
MURDOCH: S2-internal, S2-external

### **Environmental Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
Not available this year

ENV303 GIS for Environmental Management and Planning - 3 points  
<span data-type="offering" data-unit="ENV303">MURDOCH:  
S2-internal (quota of 70 places), S2-external (quota of 20 places)</span>

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

MAS224 Biostatistical Methods - 3 points  
MURDOCH: S1-internal, S1-external

BIO393 Tropical Marine Biology - 3 points  
<span data-type="offering" data-unit="BIO393">MURDOCH:  
W-internal (quota of 40 places)</span>

ENV334 Environmental Restoration - 3 points  
<span data-type="offering" data-unit="ENV334">MURDOCH:  
S1-internal (quota of 60 places), S1-external (quota of 60 places)</span>

ENG341 Water Conservation and Auditing - 3 points  
MURDOCH: S1-internal, S1-external

COM103 Foundations of Communication - 3 points  
MURDOCH: S2-internal, S2-external

BIO257 Australian Biodiversity - 3 points  
MURDOCH: S2-internal

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

### **Marine Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
Not available this year

ENV303 GIS for Environmental Management and Planning - 3 points  
 <span data-type="offering" data-unit="ENV303">MURDOCH: S2-internal (quota of 70 places), S2-external (quota of 20 places)</span>

BIO246 Microbiology - 3 points  
 MURDOCH: S1-internal

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
 MURDOCH: S2-internal

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

MAS224 Biostatistical Methods - 3 points  
 MURDOCH: S1-internal, S1-external

ENV241 Ecology - 3 points  
 MURDOCH: S2-internal, S2-external

BIO393 Tropical Marine Biology - 3 points  
 <span data-type="offering" data-unit="BIO393">MURDOCH: W-internal (quota of 40 places)</span>

#### **Biomedical Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
 Not available this year

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

MAS224 Biostatistical Methods - 3 points  
 MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points  
 MURDOCH: S1-internal

BIO394 Genetic Engineering - 3 points  
 MURDOCH: S1-internal

BIO367 Forensic Toxicology - 3 points  
 MURDOCH: S2-internal

BIO246 Microbiology - 3 points  
 MURDOCH: S1-internal

BMS218 Haematology - 3 points  
 <span data-type="offering" data-unit="BMS218">MURDOCH: S2-internal (quota of 80 places)</span>

BMS323 Clinical Biochemistry I - 3 points  
 <span data-type="offering" data-unit="BMS323">MURDOCH: S2-internal (quota of 25 places)</span>

BMS316 Parasitology: People, Pets and Wildlife - 3 points  
 MURDOCH: S2-internal

BMS317 Human Pharmacology - 3 points  
 MURDOCH: S1-internal

#### **Clinical Laboratory Science Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
 Not available this year

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

MAS224 Biostatistical Methods - 3 points  
 MURDOCH: S1-internal, S1-external

BIO394 Genetic Engineering - 3 points  
 MURDOCH: S1-internal

BIO367 Forensic Toxicology - 3 points  
 MURDOCH: S2-internal

BIO246 Microbiology - 3 points  
 MURDOCH: S1-internal

BIO388 Forensic Science and Miscarriages of Justice - 3 points

MURDOCH: W-internal

BMS317 Human Pharmacology - 3 points  
 MURDOCH: S1-internal

#### **Forensic Biology and Toxicology Major**

BSC200 Research in the Physical and Life Sciences - 3 points  
 Not available this year

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

MAS224 Biostatistical Methods - 3 points  
 MURDOCH: S1-internal, S1-external

BIO388 Forensic Science and Miscarriages of Justice - 3 points  
 MURDOCH: W-internal

BIO394 Genetic Engineering - 3 points  
 MURDOCH: S1-internal

BMS218 Haematology - 3 points  
 <span data-type="offering" data-unit="BMS218">MURDOCH: S2-internal (quota of 80 places)</span>

BMS323 Clinical Biochemistry I - 3 points  
 <span data-type="offering" data-unit="BMS323">MURDOCH: S2-internal (quota of 25 places)</span>

BMS317 Human Pharmacology - 3 points  
 MURDOCH: S1-internal

#### **Genetics and Molecular Biology Major**

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

MAS224 Biostatistical Methods - 3 points  
 MURDOCH: S1-internal, S1-external

BIO388 Forensic Science and Miscarriages of Justice - 3 points  
 MURDOCH: W-internal

BMS211 Medical Immunology and Molecular Genetics - 3 points  
 MURDOCH: S2-internal

BMS327 Diagnostic Genomics - 3 points  
 <span data-type="offering" data-unit="BMS327">MURDOCH: S1-internal (quota of 30 places)</span>

BIO367 Forensic Toxicology - 3 points  
 MURDOCH: S2-internal

BIO359 Forensic DNA Analysis - 3 points  
 MURDOCH: S1-internal

BMS218 Haematology - 3 points  
 <span data-type="offering" data-unit="BMS218">MURDOCH: S2-internal (quota of 80 places)</span>

BMS323 Clinical Biochemistry I - 3 points  
 <span data-type="offering" data-unit="BMS323">MURDOCH: S2-internal (quota of 25 places)</span>

BMS317 Human Pharmacology - 3 points  
 MURDOCH: S1-internal

#### **Chemistry Major**

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

CHE309 Advanced Projects in Chemistry and Mineral Science - 3 points  
 MURDOCH: S1-internal, S2-internal, SUM-internal

BSC304 Innovation and Ethics in Science - 3 points  
 MURDOCH: S1-internal, S1-external

#### **Physics and Nanotechnology Major**

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

MAS222 Probability and Statistical Inference - 3 points

MURDOCH: S1-internal, S1-external

ICT289 Computer Graphics Principles and Programming - 3 points

MURDOCH: S1-internal, S1-external

ICT283 Data Structures and Abstractions - 3 points

MURDOCH: S1-internal, S1-external

ENG297 Circuits and Systems II - 3 points

MURDOCH: S2-internal

ENG207 Principles of Electronic Instrumentation - 3 points

MURDOCH: S2-internal, W-internal

ICT319 Intelligent Systems - 3 points

MURDOCH: S2-internal, S2-external

MAS221 Mathematical Modelling - 3 points

MURDOCH: S2-internal, S2-external

MAS351 Environmental and Biological Modelling - 3 points

MURDOCH: S1-internal, S1-external

MAS354 Modelling and Simulation - 3 points

MURDOCH: S2-internal, S2-external

BSC304 Innovation and Ethics in Science - 3 points

MURDOCH: S1-internal, S1-external

### **Mathematics and Statistics Major**

MAS220 Mathematical Methods - 3 points

MURDOCH: S1-internal, S1-external

MAS222 Probability and Statistical Inference - 3 points

MURDOCH: S1-internal, S1-external

ICT283 Data Structures and Abstractions - 3 points

MURDOCH: S1-internal, S1-external

MAS351 Environmental and Biological Modelling - 3 points

MURDOCH: S1-internal, S1-external

MAS352 Time Series Analysis - 3 points

MURDOCH: S1-internal, S1-external

ICT373 Software Architectures - 3 points

MURDOCH: S1-internal, S1-external

ICT374 Operating Systems and Systems Programming - 3 points

MURDOCH: S2-internal, S2-external

### **Engineering Technology Major**

MAS221 Mathematical Modelling - 3 points

MURDOCH: S2-internal, S2-external

The following unit is no longer available - contact the Academic Chair for advice:

BEN200 Scientific Method in Engineering - 3 points

MAS223 Applied Statistics - 3 points

MURDOCH: S2-internal, S2-external

BEN300 Innovation and Ethics in Engineering - 3 points

MURDOCH: S1-internal

BSC304 Innovation and Ethics in Science - 3 points

MURDOCH: S1-internal, S1-external

MAS351 Environmental and Biological Modelling - 3 points

MURDOCH: S1-internal, S1-external

MAS354 Modelling and Simulation - 3 points

MURDOCH: S2-internal, S2-external

ENG336 Engineering Finance, Management and Law - 3 points

MURDOCH: S2-internal

### **Mineral Science Major**

ENG255 Chemical Process Kinetics - 3 points

MURDOCH: S2-internal, S2-external

MAS221 Mathematical Modelling - 3 points

MURDOCH: S2-internal, S2-external

The following unit is no longer available - contact the Academic Chair for advice:

BEN200 Scientific Method in Engineering - 3 points

ENG299 Control Systems and Process Dynamics - 3 points

MURDOCH: S1-internal

BEN300 Innovation and Ethics in Engineering - 3 points

MURDOCH: S1-internal

MAS351 Environmental and Biological Modelling - 3 points

MURDOCH: S1-internal, S1-external

MAS354 Modelling and Simulation - 3 points

MURDOCH: S2-internal, S2-external

ENG336 Engineering Finance, Management and Law - 3 points

MURDOCH: S2-internal

### **Marine Biology Major**

BSC200 Research in the Physical and Life Sciences - 3 points

Not available this year

ENV303 GIS for Environmental Management and Planning - 3 points

<span data-type="offering" data-unit="ENV303">MURDOCH: S2-internal (quota of 70 places), S2-external (quota of 20 places)</span>

BIO246 Microbiology - 3 points

MURDOCH: S1-internal

BMS316 Parasitology: People, Pets and Wildlife - 3 points

MURDOCH: S2-internal

MAS223 Applied Statistics - 3 points

MURDOCH: S2-internal, S2-external

MAS224 Biostatistical Methods - 3 points

MURDOCH: S1-internal, S1-external

BIO282 Molecular Biology - 3 points

MURDOCH: S1-internal

### **Additional Professional Registration Requirements**

Students who wish to proceed to fourth and later years of study and/or be eligible for professional registration must complete the following three units mandated by the Australian Psychology Accreditation Council. These can be taken as part of a Social and Developmental Psychology minor.

PSY101 Introduction to Cultural Psychology - 3 points

MURDOCH: S1-internal

PSY286 Psychology: Human Development - 3 points

MURDOCH: S1-internal

PSY285 Psychology: Social Bases of Behaviour - 3 points

MURDOCH: S2-internal

Entry into the Graduate Diploma in Psychology or Honours (fourth year of study) is only permitted for students who have completed an accredited three-year sequence. The minimum entry standard is a Credit average over all Psychology units completed in the preceding three year sequence.

## **PREREQUISITES**

### **Advanced Projects in Chemistry and Mineral Science (CHE309)**

Students need to have completed a minimum of 24 points at 200 and 300 level.



**Advanced Quantitative Research Methods (BSC302)**

BSC201 Psychology: Measurement, Design and Analysis OR  
PSY212: Psychology: Measurement, Design and Analysis.

**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.

**Australian Biodiversity (BIO257)**

Nil.

**Biochemistry (BIO247)**

BIO152 Cell Biology/Foundations of Cell and Molecular Biology/Foundations of Cell Biology

**Biostatistical Methods (MAS224)**

MAS180 Introduction to Statistics or MAS183 Statistical Data Analysis.

**Building Blocks for Science Students (BSC100)**

Enrolment in a Bachelor of Science, Bachelor of Animal Science, Bachelor of Environmental Management, Bachelor of Environmental Science, Bachelor of Extractive Metallurgy, Bachelor of Forensics, Bachelor of Marine Science, Bachelor of Sports Science, Bachelor of Technology in Engineering Technology, Bachelor of Sustainability, Bachelor Of Sport And Exercise Science, Bachelor of Sport and Exercise Science + Psychology (BSportExSc, BSc) or Bachelor Of Sport And Exercise Science/Graduate Diploma In Clinical Exercise Physiology, or B1355 Bachelor of Laws / Bachelor of Science (Psychology), or B1338 BA Psychology, B1388 BA Psychology, or B1347 Bachelor of Criminology + BA Psychology, or B1354 Bachelor of Law + Bachelor of Arts Psychology, or Bachelor of Science (Agricultural Sciences), or Bachelor of Agricultural Science + Commerce, or Bachelor of Laboratory Medicine, or Bachelor of Science (Medical, Molecular and Forensic Sciences), or Bachelor of Food Science and Nutrition.

**Career Learning: Managing Your Career (MSP100)**

Nil.

**Chemical Analysis (CHE207)**

CHE144 Foundations of Chemistry/PEC144 Chemical Principles.

**Chemical Process Kinetics (ENG255)**

All Part I units in the Chemical and Metallurgical Engineering Honours major.

**Circuits and Systems II (ENG297)**

ENG225 Circuits and Systems I AND MAS182 Applied Mathematics or equivalent.

**Clinical Biochemistry I (BMS323)**

BIO247 Biochemistry

**Computer Graphics Principles and Programming (ICT289)**

ICT167 Principles of Computer Science OR ICT104 Principles of Computer Science. Students are encouraged to also complete MAS162 Foundations of Discrete Mathematics AND ICT170 Foundations of Computer Systems.

**Control Systems and Process Dynamics (ENG299)**

PEC152/PEN152 Principles of Physics; MAS161 Calculus and Matrix Algebra or co-requisite MAS208 Mathematical Modelling; ENG109 Computing for Scientists and Engineers; ENG192 Energy, Mass and Flow or CHE144 Foundations of Chemistry.

**Creative Ways to Work with Community (COD302)**

Nil.

**Data Structures and Abstractions (ICT283)**

ICT167/ICT104 Principles of Computer Science. Students are encouraged to also complete MAS162 Foundations of Discrete

Mathematics AND ICT170 Foundations of Computer Systems.

**Diagnostic Genomics (BMS327)**

BIO282 Molecular Biology

**Ecology (ENV241)**

BIO103 Environmental Biology/Introduction to Environmental Biology or BIO180 Introduction to Marine Biology.

**Economics of Sustainability (SUS305)**

Nil.

**Engineering Finance, Management and Law (ENG336)**

Nil.

**Environmental Policy and Law (ENV328)**

Nil.

**Environmental Restoration (ENV334)**

BIO103 Environmental Biology/Introduction to Environmental Biology. Students are strongly recommended to complete ENV268/ENV241 Ecology.

**Environmental and Biological Modelling (MAS351)**

MAS221/MAS208 Mathematical Modelling OR MAS220/MAS261 Mathematical Methods.

**Forensic DNA Analysis (BIO359)**

BIO202 Molecular Biology I or BIO212 Genetic Engineering or BIO282 Molecular Biology

**Forensic Science and Miscarriages of Justice (BIO388)**

PEC103/CHE103 Introduction to Forensic Science OR CRM100 Introduction to Criminology OR permission of the Unit Co-ordinator.

**Forensic Toxicology (BIO367)**

Successful completion of, or concurrent enrolment in, either BIO247/BIO270 Biochemistry/Biochemistry I or BMS261/VET272 Human and Comparative Biochemistry/Comparative Mammalian Biochemistry or CHE207 Chemical Analysis..

**Foundations of Communication (COM103)**

Nil.

**GIS for Environmental Management and Planning (ENV303)**

Completion of 24 points or enrolment in an appropriate graduate qualification.

**Genetic Engineering (BIO394)**

BIO282 Molecular Biology

**Haematology (BMS218)**

BIO152 Cell Biology/Foundations of Cell and Molecular Biology/Foundations of Cell Biology.

**Human Pharmacology (BMS317)**

Essential: BIO247 Biochemistry or BMS206 Biomedical Physiology OR VET272 Comparative Mammalian Biochemistry.  
Recommended: BRD202 Drugs in Society

**Innovation and Ethics in Engineering (BEN300)**

BEN200 Engineering Research Skills; MAS261/MAS220 Mathematical Methods OR MAS208/MAS221 Mathematical Modelling.

**Innovation and Ethics in Science (BSC304)**

Completion of one 200-level research skills unit recommended for your major.

**Intelligent Systems (ICT319)**

ICT167 Principles of Computer Science OR ICT104 Principles of Computer Science.

**Introduction to Cultural Psychology (PSY101)**

Nil.

**Introduction to Psychological Health and Wellbeing (PSY172)**

Nil.

**Introduction to Psychological Research Methods (PSY173)**

Nil.

**Introduction to Psychological Science (PSY141)**

Nil.

**Introduction to Research Methodology and Evidence Based Practice (BSC206)**

100-level Transition Unit.

**Managing Wetlands and Water (ENV332)**

ENV241/ENV268 Ecology

**Marine Ecology (BIO377)**

BIO261/BIO244 Animal Diversity/Animal Speciation, Radiation, Evolution, or BIO287 Plant Diversity (Marine Science) / BIO254 Marine Botany or BIO265/BIO245 Plant Diversity/Plant Evolution, Radiation and Adaptation, or ENV268/ENV241 Ecology.

**Mathematical Methods (MAS220)**

MAS161 Calculus and Matrix Algebra OR MAS208/MAS221 Mathematical Modelling OR equivalent.

**Mathematical Modelling (MAS221)**

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

**Medical Immunology and Molecular Genetics (BMS211)**

BIO152 Cell Biology/ Foundations of Cell and Molecular Biology.

**Microbiology (BIO246)**

BIO152 Cell Biology/Foundations of Cell and Molecular Biology/Foundations of Cell Biology

**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

**Molecular Biology (BIO282)**

BIO152 Cell Biology/Foundations of Cell and Molecular Biology/Foundations of Cell Biology

**Operating Systems and Systems Programming (ICT374)**

ICT283/ICT209 Data Structures and Abstractions.

**Parasitology: People, Pets and Wildlife (BMS316)**

BIO152 Cell Biology/Foundations of Cell and Molecular Biology/Foundations of Cell Biology

**Principles of Electronic Instrumentation (ENG207)**

ENG225 Circuits and Systems I and MAS182 Applied 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.

**Psychology: Abnormal Behaviour (PSY388)**

PSY141 Introduction to Psychological Science or PSY171 Introduction to Applications of Psychology or PSY173 Introduction to Psychological Research Methods or PSY101 Introduction to Cultural Psychology or PSY172 Introduction to Psychological Health and Wellbeing

**Psychology: Biological Bases of Behaviour (PSY251)**

PSY173 Introduction to Psychological Research Methods

**Psychology: Cognitive Neuroscience (PSY396)**

Students must have completed PSY251 Psychology: Biological Bases of Behaviour and PSY294 Psychology: Cognitive Processes.

**Psychology: Cognitive Processes (PSY294)**

PSY173 Introduction to Psychological Research Methods

**Psychology: Drugs and Dependence (PSY389)**

PSY141 Introduction to Psychological Science

**Psychology: Human Development (PSY286)**

PSY141 Introduction to Psychological Science OR PSY171 Introduction to Applications of Psychology OR PSY173 Introduction to Psychological Research Methods OR PSY101 Introduction to Cultural and Community Psychology OR PSY172 Introduction to Psychological Health and Wellbeing

**Psychology: Measurement, Design and Analysis (BSC201)**

PSY173 Introduction to Psychological Research Methods

**Psychology: Sensation and Perception (PSY297)**

PSY141 Introduction to Psychological Science.

**Psychology: Social Bases of Behaviour (PSY285)**

PSY141 Introduction to Psychological Science OR PSY171 Introduction to Applications of Psychology OR PSY173 Introduction to Psychological Research Methods OR PSY101 Introduction to Cultural Psychology OR PSY172 Psychological Health and Wellbeing

**Research and Evidence Based Practice (BSC306)**

Completion of BSC206 Introduction to Research Methodology and Evidence Based Practice or special permission of Unit Coordinator.

**Research in the Physical and Life Sciences (BSC200)**

BSC100 Building Blocks for Science Students; OR enrolment in B1329 Bachelor of Education/Bachelor of Science and BED100 Ideas in Education.

**Software Architectures (ICT373)**

ICT104 Principles of Computer Science OR ICT167 Principles of Computer Science; ICT231 Systems Analysis and Design OR ICT284 Systems Analysis and Design.

**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.

**Time Series Analysis (MAS352)**

MAS222/MAS278 Probability and Statistical Inference OR MAS223 Applied Statistics OR MAS224/MAS230 Biostatistical Methods OR MAS284 Applied Statistics and Process Management or enrolment in a postgraduate IT course. In addition students must have a calculus background equivalent to at least either MAS161 Calculus and Matrix Algebra OR MAS221/MAS208 Mathematical Modelling.

**Tropical Marine Biology (BIO393)**

BIO261/BIO244 Animal Diversity/Animal Speciation, Radiation, Evolution OR BIO265/BIO245 Plant Diversity/Plant Evolution, Radiation and Adaptation OR BIO287/BIO254 Plant Diversity (Marine Science) /Marine Botany OR ENV268/ENV241 Ecology OR permission of the Unit Coordinator.

**Water Conservation and Auditing (ENG341)**

Nil.

# Personal Study Plan

Unit Sets:

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| Year | Semester 1 | Semester 2 |
|------|------------|------------|
| 1    |            |            |
| 2    |            |            |
| 3    |            |            |
| 4    |            |            |