

Handbook 2020

Coursecode

G1089

GRADUATE DIPLOMA IN SYSTEMS MEDICINE

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:

<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

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Group	Course	Offerings
Graduate Coursework Degrees and Professional Doctorates		
Systems Medicine	Graduate Diploma in Systems Medicine (GradDipSysMed)	• Not currently available to new admissions

SYSTEMS MEDICINE

GRADUATE DIPLOMA IN SYSTEMS MEDICINE (GRADDIPSYSMED)

Graduate Research

Graduate Diploma in Systems Medicine (GradDipSysMed)

Course Codes: G1089

Restriction: All graduate courses are subject to restriction.

Duration: 1 year full-time or part-time equivalent

Availability:

- Not currently available to new admissions

This 1-year Graduate Diploma course is designed to train students in omics science technologies. Students will gain extensive theoretical and practical knowledge of key omic techniques from researchers at the forefront of systems medicine. On completion of this course, graduates will have high level of multidisciplinary expertise to meet the skills currently sought by employers in academia/industry/healthcare. Students will undertake 12 points of taught coursework and 12 points of research preparation.

Employment Prospects:

In research institutes, hospitals, industries within health care; scientific professional, technical professional and academia

Admission Requirements (Onshore):

A recognised Bachelor Degree (AQF Level 7) with a GPA of 2.5 or higher, including studies in either biochemistry or chemistry AND either mathematics or statistics. Applicants who can show equivalent knowledge through vocational training and/or experience will be considered.

Main Research Areas:

Phenomics, systems medicine, bioinformatics, clinical areas (aging, cardiometabolic diseases, maternal and early life), omics science

Course Structure - 24 credit points

Core Units

Core Units - 18 credit points

BIO512 Introduction to Systems Medicine - 3 points
MURDOCH: S2-internal

BIO513 Introduction to bioinformatics and data science - 3 points
Not available this year

VLS683 Advanced Research Methods for Scientists - 3 points
MURDOCH: S1S-internal, S1S-external, S2N3-internal, S2N3-external

BIO510 Research design in systems medicine - 9 points
MURDOCH: S1-internal

Specified Electives

Specified Electives - 6 credit points

Select from the following:

Specified Electives - 6 credit points

BIO514 Systems Medicine in Maternal and Early Life - 3 points
Not available this year

BIO515 Systems Medicine in Cardiometabolic Disease - 3 points
Not available this year

BIO516 Systems Medicine in Brain Health and Neuropathology - 3 points
Not available this year

PREREQUISITES

Advanced Research Methods for Scientists (VLS683)

Enrolment in Honours or a graduate-level (AQF level 9) course or Bachelor Environmental Science.

Introduction to Systems Medicine (BIO512)

Enrolment in Master of Systems Medicine (Research), Graduate Certificate in Systems Medicine, Graduate Diploma in Systems Medicine.

Introduction to bioinformatics and data science (BIO513)

Enrolment in Master of Systems Medicine (Research), Graduate Certificate in Systems Medicine, Graduate Diploma in Systems Medicine.

Research design in systems medicine (BIO510)

Enrolment in Master of Systems Medicine (Research), or completion of Graduate Certificate in Systems Medicine with minimum scores of 65%.

Systems Medicine in Brain Health and Neuropathology (BIO516)

Enrolment in Graduate Certificate in Systems Medicine or Graduate Diploma in Systems Medicine or Master of Systems Medicine (Research)

Systems Medicine in Cardiometabolic Disease (BIO515)

Enrolment in Graduate Certificate in Systems Medicine or Graduate Diploma in Systems Medicine or Master of Systems Medicine (Research)

Systems Medicine in Maternal and Early Life (BIO514)

Enrolment in Graduate Certificate in Systems Medicine or Graduate Diploma in Systems Medicine or Master of Systems Medicine (Research).