

## HEALTH DATA SCIENCE (MSc/PgDip/PgCert)

57B9ISB1/61B9ISVX/62B9ISVZ

### Full time route

#### First session (Sept – December)

Students must take the following compulsory courses:

PD5006 Getting Started at the University of Aberdeen (0 credit points)  
PU5017 Applied Statistics (15 credits)  
PU5058 Introduction to Health Data Science (15 credits)

Plus two from:

CS502K Symbolic AI (15 credits)  
CS502W Introduction to Data Visualisation with Python (15 credits)  
CS5097 Database Systems and Big Data (15 credits)  
PU5031 Evidence Based Health Care (15 credits)  
PU5032 Health Economics (15 credits)  
PU5038 Designing Real-World Trials (15 credits)  
PU5052 Fundamentals of Research Design (15 credits)

#### Second session (January – March)

Students must take the following compulsory courses:

PU5532 Health Informatics (15 credits)  
PU5538 Epidemiology (15 credits)

Plus two from:

CS551L Data Science: From Data to Insight (15 credits) (cannot be taken CS5703 if taken)  
CS5703 Data Science: From Data to Insight (15 credits) (cannot be taken CS551L if taken)  
PU5526 Systematic Reviewing (15 credits) (cannot be taken if PU5031 has been taken)  
PU5528 Value and Ethics in Public Health (15 credits)  
PU5546 Health Economics (15 credits) (cannot be taken if PU5032 has been taken)  
PU5548 Work-based Placement in Applied Health Sciences (15 credits)  
PU5558 Machine Learning for Healthcare (15 credits)

#### Third session (April – August)

PU5922 Masters Research Project (60 credits)

OR

PU5919 Evaluating Policy Effects in Practice (30 credits)  
PU5923 Extended Work-Based Placement in Applied Health Science (30 credits)

**PLEASE SEE OVER →**

## **Part Time Route**

During taught courses semester students will take a maximum of 30 credit per semester

Year 1

### **First session (Sept – December)**

Students must take the following compulsory courses:

PD5006 Getting Started at the University of Aberdeen (0 credit points)

Plus at least one from the following (a maximum of two):

PU5017 Applied Statistics (15 credits)

PU5058 Introduction to Health Data Science (15 credits)

Plus up to one from:

CS502K Symbolic AI (15 credits)

CS502W Introduction to Data Visualisation with Python (15 credits)

CS5097 Database Systems and Big Data (15 credits)

PU5031 Evidence Based Health Care (15 credits)

PU5032 Health Economics (15 credits)

PU5038 Designing Real-World Trials (15 credits)

PU5052 Fundamentals of Research Design (15 credits)

### **Second session (January – March)**

Plus at least one from the following (a maximum of two):

PU5532 Health Informatics (15 credits)

PU5538 Epidemiology (15 credits)

Plus up to one from:

CS551L Data Science: From Data to Insight (cannot be taken if CS5703 has been taken)

CS5703 Data Science: From Data to Insight

PU5526 Systematic Reviewing (15 credits) (cannot be taken if PU5031 has been taken)

PU5528 Value and Ethics in Public Health (15 credits)

PU5546 Health Economics (15 credits) (cannot be taken if PU5032 has been taken)

PU5548 Work-based Placement in Applied Health Sciences (15 credits)

PU5558 Machine Learning for Healthcare (15 credits)

### **Third session 1st year (April – July)**

If taking a 60 credit project, or a 60 credit work placement,, students do not need to select anything in this semester.

OR

PU5919 Evaluating Policy Effects in Practice (30 credits)

PU5923 Extended Work-Based Placement in Applied Health Science (30 credits)

**PLEASE SEE OVER →**

## Year 2

### First session (Sept – December)

Students must complete any of the two compulsory course which they did not take in the first year:

- PU5017 Applied Statistics (15 credits)
- PU5058 Introduction to Health Data Science (15 credits)

Plus up to two from :

- CS502K Symbolic AI (15 credits)
- CS502W Introduction to Data Visualisation with Python (15 credits)
- CS5097 Database Systems and Big Data (15 credits)
- PU5031 Evidence Based Health Care (15 credits)
- PU5032 Health Economics (15 credits)
- PU5038 Designing Real-World Trials (15 credits)
- PU5052 Fundamentals of Research Design (15 credits)

### Second session (January – March)

Students must complete any of the two compulsory course which they did not take in the first year:

- PU5532 Health Informatics (15 credits)
- PU5538 Epidemiology (15 credits)

Plus up to one from:

- CS551L Data Science: From Data to Insight (cannot be taken if CS5703 has been taken)
- CS5703 Data Science: From Data to Insight
- PU5526 Systematic Reviewing (15 credits) (cannot be taken if PU5031 has been taken)
- PU5528 Value and Ethics in Public Health (15 credits)
- PU5546 Health Economics (15 credits) (cannot be taken if PU5032 has been taken)
- PU5548 Work-based Placement in Applied Health Sciences (15 credits)
- PU5558 Machine Learning for Healthcare (15 credits)

### Third session 2<sup>nd</sup> year (April – July)

- PU5922 Masters Research Project (60 credits)

OR

- PU5919 Evaluating Policy Effects in Practice (30 credits)
- PU5923 Extended Work-Based Placement in Applied Health Sciences (30 credits)