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)
PU5050 Open and Reproducible Health Data Science (15 credits)
PU5058 Introduction to Health Data Science (15 credits)

Plus one from:
CS502K Symbolic AI (15 credits)
CS5097 Database Systems and Big Data (15 credits)
PU5052 Fundamentals of Research Design (15 credits)
PU5032 Health Economics (15 credits)
PU5038 Designing Real-World Trials (15 credits)
PU5031 Evidence Based Health Care (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:
CS5703 Data Science: From Data to Insight (15 credits) (cannot be taken CS551L if taken)
CS551L Data Science: From Data to Insight (15 credits) (cannot be taken CS5703 if taken)
PU5528 Value and Ethics in Public Health (15 credits)
PU5526 Systematic Reviewing (15 credits) (cannot be taken if PU5031 has been taken)
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 two from:
PU5916 Rapid Research Project (30 credits)
PU5919 Evaluating Policy Effects in Practice (30 credits)
PU5923 Extended Work-Based Placement in Applied Health Science (30 credits)

<u>Part time route</u>
During taught courses semester students will take a maximum of 30 credit per semester

<u>YEAR 1</u>

<u>First session (Sept - December)</u>

Students must take the following compulsory courses:

PD5006 Getting Started at the University of Aberdeen (0 credit points)
PU5028 Introduction to Online Learning (0 credit points)

Plus at least one from the following (a maximum of 2):

PU5017 Applied Statistics (15 credits)
PU5050 Open and Reproducible Health Data Science (15 credits)
PU5058 Introduction to Health Data Science (15 credits)

Plus up to one from:
CS502K Symbolic AI (15 credits)

CS5097 Database Systems and Big Data (15 credits)
PX5007 Introduction to Programming (15 Credits)
PX5009 Machine Learning (15 credits)
PU5027 Fundamentals of Research Design (15 credits)
PU5032 Health Economics (15 credits)
PU5038 Designing Real-World Trials (15 Credits)
PU5031 Evidence Based Health Care (15 Credits)

<u>Second session (January – March)</u>

Plus at least one from the following (a maximum of 2):

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

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

<u>Third session 1st year (April – July)</u>

If one from:

PU5916 Rapid Research Project (30 credits)
PU5919 Evaluating Policy Effects in Practice (30 credits)
PU5923 Extended Work-Based Placement in Applied Health Science (30 credits)

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First session year 2 (Sept - December)

Students must complete any of the 3 compulsory course which have not yet been completed in the first year:

PU5017 Applied Statistics (15 credits)
PU5050 Open and Reproducible Health Data Science (15 credits)
PU5058 Introduction to Health Data Science (15 credits)

Plus up to one from :

CS5060 Foundations of Artificial Intelligence (15 credits)
CS5097 Database Systems and Big Data (15 credits)
PX5007 Introduction to Programming (15 Credits)
PX5009 Machine Learning (15 credits)
PU5027 Fundamentals of Research Design (15 credits)
PU5032 Health Economics (15 credits)
PU5038 Designing Real-World Trials (15 Credits)
PU5031 Evidence Based Health Care (15 Credits)

Second session year 2 (January – March)

Students must complete any of the 2 compulsory course which have not yet been completed in the first year:

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

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

Third session 2nd year (April – July)

PU5922 Masters Research Project (60 credits)

Or one from:

PU5916 Rapid Research Project (30 credits)
PU5919 Evaluating Policy Effects in Practice (30 credits)
PU5923 Extended Work-Based Placement in Applied Health Science (30 credits)