



Unit Outline (Higher Education)

Institute / School:	Institute of Health and Wellbeing
Unit Title:	Public Health Informatics
Unit ID:	HEAPH7002
Credit Points:	30.00
Prerequisite(s):	Nil
Co-requisite(s):	Nil
Exclusion(s):	Nil
ASCED:	061300

Description of the Unit:

This unit will provide the basic concepts on how information and communication technologies are contributing and transforming public health globally. Students will be able to analyse data and utilize technologies for public health research and practice, they will be able to use informatics for disease surveillance, outbreak investigations and suggest preventive measures. The unit will show how data are generated and managed, so that it can inform public health policy. Students will be able to interpret relevant public health policies, identify gaps and recommend changes.

Grade Scheme: Graded (HD, D, C, P, MF, F, XF)

Work Experience:

No work experience

Placement Component: No

Supplementary Assessment: No

Supplementary assessment is not available to students who gain a fail in this Unit.

Course Level:

Level of Unit in Course	AQF Level of Course					
	5	6	7	8	9	10
Introductory	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Intermediate	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Level of Unit in Course	AQF Level of Course					
	5	6	7	8	9	10
Advanced	■	■	■	■	✓	■

Learning Outcomes:

Knowledge:

- K1.** Recognize and outline fundamental concepts in health informatics
- K2.** Summarise principles of ethics & privacy relevant to electronic health records
- K3.** Appraise the need to information technology for public health research and practice

Skills:

- S1.** Identify and apply essential health informatics concepts and tools to any public health issue
- S2.** Communicate technical understanding of specific processes involved in managing public health data
- S3.** Critically analyse approaches to digital health and their impacts on public health in Australia and internationally

Application of knowledge and skills:

- A1.** Demonstrate higher level of thinking skills to adopt informatics technologies in public health
- A2.** Ability to work productively with multidisciplinary teams to make informed decision based on the interpretation of public health data
- A3.** Evaluate concepts and technologies relevant to public health research, practice and policy

Unit Content:

Introduction to health informatics. Models, theories, and research for program evaluation. Electronic health records. Information and communication technologies. Administrative applications supporting healthcare delivery. Telehealth. Clinical decision support systems in healthcare. mHealth. Informatics-related standards. Data analytics in public health. Informatics tools for educating healthcare professionals. Ethical issues related to public health informatics. Public health informatics in international contexts.

Learning Task and Assessment:

Learning Outcomes Assessed	Assessment Tasks	Assessment Type	Weighting
K1, K2, K3, S1, S2, S3, A1, A2, A3	Structured quiz	Online quiz	20-40%
K1, K2, K3, S1, S2, S3, A1	Critical appraisal of selected study utilizing electronic health records	Critical Analysis Essay	30-50%
K1, K2, K3, S1, S2, S3, A1, A2, A3	Group presentation on a selected research topic	Group Digital Presentation	40-60%

Adopted Reference Style:

APA ()

Refer to the [library website](#) for more information

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