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):	Students need to complete 1st year subjects (120 credit point) of MPH program
Co-requisite(s):	Nil
Exclusion(s):	Nil
ASCED:	061307

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: Student is not undertaking work experience in industry.

Placement Component: No

Supplementary Assessment: Yes

Where supplementary assessment is available a student must have failed overall in the Unit but gained a final mark of 45 per cent or above, has completed all major assessment tasks (including all sub-components where a task has multiple parts) as specified in the Unit Description and is not eligible for any other form of supplementary assessment

Course Level:

Level of Unit in Course	AQF Level of Course					
	5	**6**	**7**	**8**	**9**	**10**
Introductory	☐	☐	☐	☐	✔	☐
Intermediate	☐	☐	☐	☐	☐	☐
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:

Topics may include:

- 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%

Learning Outcomes Assessed	Assessment Tasks	Assessment Type	Weighting
K1, K2, K3, S1, S2, S3, A1, A2, A3	Group presentation on a selected research topic	Group Digital Presentation	40-60%

Alignment to the Minimum Co-Operative Standards (MiCS)

The Minimum Co-Operative Standards (MiCS) are an integral part of the Co-Operative University Model. Seven criteria inform the MiCS alignment at a Course level. Although Units must undertake MiCS mapping, there is NO expectation that Units will meet all seven criteria. The criteria are as follows:

1. Co-design with industry and students
2. Co-develop with industry and students
3. Co-deliver with industry
4. FedTASK alignment
5. Workplace learning and career preparation
6. Authentic assessment
7. Industry-link/Industry facing experience

MiCS Course level reporting highlights how each Course embraces the principles and practices associated with the Co-Operative Model. Evidence of Course alignment with the MiCS, can be captured in the Course Modification Form.

MICS Mapping has been undertaken for this Unit   No

Date:

Adopted Reference Style:

APA

Refer to the library website for more information

Fed Cite - referencing tool