HSYP817

Public Health Informatics

S1 Day 2018

Medicine and Health Sciences Faculty level units

Contents

Disclaimer

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General Information

Unit convenor and teaching staff
Unit Convenor
Amalie Dyda
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75 Talavera Rd
By appointment only

Credit points
4

Prerequisites
Admission to MPH

Corequisites

Co-badged status

Unit description
This unit will provide students with the knowledge and skills to navigate new and emerging technologies and their implementation in public health. An overview of the use of technology will be provided (including e-health, computer informatics, mobile applications and telemedicine). The unit will comprise three core components.
1. Public Health Informatics
2. Safety and ethics
3. Evaluation- assessing feasibility, acceptability, cost effectiveness, ethics

Important Academic Dates

Information about important academic dates including deadlines for withdrawing from units are available at https://www.mq.edu.au/study/calendar-of-dates

Learning Outcomes

On successful completion of this unit, you will be able to:

Demonstrate an understanding of basic Public Health Informatics.

Demonstrate the ability to interpret results from Public Health Informatics studies, with considerations of the limitations.

Demonstrate the ability to evaluate a new health technology intervention.

Describe the safety and ethics associated with the use of new technologies in public

health.

Demonstrate critical thinking and problem solving skills in relation to a health system problem and identify solutions.

General Assessment Information

Information concerning Macquarie University's assessment policy is available at http://mq.edu.au/policy/docs/assessment/policy_2016.html. Grade descriptors and other information concerning grading requirements are contained in Schedule 1 of the Macquarie University Assessment Policy.

To pass this unit, students must demonstrate sufficient evidence of achievement of the learning outcomes and attempt all assessment tasks.

Further details for each assessment task will be available on iLearn, including marking rubrics.

All final grades in the department of Health Systems and Populations are determined by a grading committee and are not the sole responsibility of the Unit Convenor.

Students will be awarded one of these grades plus a Standardised Numerical Grade (SNG). The SNG is not necessarily a summation of the individual assessment components. The final grade and SNG that are awarded reflect the corresponding grade descriptor in Schedule 1 of the Assessment Policy.

Extensions for Assessment tasks

Applications for assessment task extensions must be submitted via www.ask.mq.edu.au. For further details please refer to the Disruption to Studies Policy available at https://staff.mq.edu.au/work/strategy-planning-and-governance/university-policies-and-procedures/policies/disruption-to-studies.

Late Submission of Work

All assignments which are officially received after the due date, and where no extension has been granted by the course convenor or tutor, will incur a deduction of 5% for the first day including the actual day on which the work is received, and 5% for each subsequent day. Weekends and public holidays are included. For example:

Due date	Received	Days late	Deduction	Raw mark	Final mark
Friday 14th	Saturday 15th	1	5%	75%	70%
Friday 14th	Monday 17th	3	15%	75%	60%

Assessment Tasks

Name	Weighting	Hurdle	Due
Online Quiz	10%	No	Week 4
Major Project	50%	No	Week 9
Written Assignment	40%	No	Week 13
Reflection	0%	No	Week 15

Online Quiz

Due: **Week 4**
Weighting: **10%**

'Introductory principles for public health informatics and AI'

On successful completion you will be able to:

- Demonstrate an understanding of basic Public Health Informatics.

Major Project

Due: **Week 9**
Weighting: **50%**

The application of technology in public health

On successful completion you will be able to:

- Demonstrate an understanding of basic Public Health Informatics.
- Demonstrate the ability to interpret results from Public Health Informatics studies, with considerations of the limitations.
- Describe the safety and ethics associated with the use of new technologies in public health.
- Demonstrate critical thinking and problem solving skills in relation to a health system problem and identify solutions.

Written Assignment

Due: **Week 13**
Weighting: **40%**

Evaluation of a technology in health intervention

On successful completion you will be able to:

- Demonstrate an understanding of basic Public Health Informatics.
- Demonstrate the ability to interpret results from Public Health Informatics studies, with considerations of the limitations.
- Demonstrate the ability to evaluate a new health technology intervention.
- Describe the safety and ethics associated with the use of new technologies in public health.
- Demonstrate critical thinking and problem solving skills in relation to a health system problem and identify solutions.

Reflection

Due: **Week 15**
Weighting: **0%**

Reflection exercise to consolidate your learning from Public Health Informatics, including the importance of informatics and unique aspects of evaluation methods

On successful completion you will be able to:

- Demonstrate the ability to evaluate a new health technology intervention.

Delivery and Resources

Unit Organisation

This is a four credit point unit run over a 13 week session. There are lectures, online weeks and supplementary online information and activities. Further information is available via the HSYP817 online Learning Management System (LMS) iLearn http://ilearn.mq.edu.au

Attendance

All lectures are scheduled in your individual timetable. In most cases lectures are recorded however, attendance is expected at lectures, as this is where the majority of learning occurs. Failure to attend may impact your final results. It is the responsibility of the student to contact their tutor by email to inform tutors if they are going to be absent. The timetable for classes can be found on the University web site at: http://www.timetables.mq.edu.au/.

Textbooks

Two textbooks are recommended but not required for this unit. Copies will be held in library reserve.

Guide to Health Informatics

3rd edition

Author: Enrico Coiera

ISBN 9781444170498

Public Health Informatics and Information Systems

2nd edition

Editors: J A Magnuson; Paul C Fu, Jr

ISBN 9781447142379

Readings

The readings for each week will be listed in ilearn using the Leganto system. Leganto is a new reading list management system, which you can access through your iLearn unit. For further information to understand and navigate your unit reading lists in Leganto, check this guide: http://libguides.mq.edu.au/leganto

Readings marked as 'required' are those that are essential to be completed for that week. Some readings may be included within a weeks readings that are marked as 'recommended' or 'secondary sources'. These are there for your recommended reading or for where we have sourced additional material that may be of interest to you. Please use these at your discretion.

Technology and equipment

On-campus

Teaching rooms are equipped with state of art audio-visual and ICT equipment including iPads, internet connection, high quality video cameras and multiple LCD screens.

Off-campus

To study optimally when off campus you will need to have access to a reliable internet connection to retrieve unit information & at times to submit assessment tasks via iLearn.

Policies and Procedures

Macquarie University policies and procedures are accessible from Policy Central (https://staff.mq.edu.au/work/strategy-planning-and-governance/university-policies-and-procedures/policy-central). Students should be aware of the following policies in particular with regard to Learning and Teaching:

- Academic Appeals Policy
- Academic Integrity Policy
- Academic Progression Policy
- Assessment Policy

- Fitness to Practice Procedure

- Grade Appeal Policy

- Complaint Management Procedure for Students and Members of the Public

- Special Consideration Policy *(**Note:** The Special Consideration Policy is effective from 4 December 2017 and replaces the Disruption to Studies Policy.)*

Undergraduate students seeking more policy resources can visit the Student Policy Gateway (https://students.mq.edu.au/support/study/student-policy-gateway). It is your one-stop-shop for the key policies you need to know about throughout your undergraduate student journey.

If you would like to see all the policies relevant to Learning and Teaching visit Policy Central (https://staff.mq.edu.au/work/strategy-planning-and-governance/university-policies-and-procedures/policy-central).

Student Code of Conduct

Macquarie University students have a responsibility to be familiar with the Student Code of Conduct: https://students.mq.edu.au/study/getting-started/student-conduct

Results

Results shown in *iLearn*, or released directly by your Unit Convenor, are not confirmed as they are subject to final approval by the University. Once approved, final results will be sent to your student email address and will be made available in eStudent. For more information visit ask.mq.edu.au.

Student Support

Macquarie University provides a range of support services for students. For details, visit http://students.mq.edu.au/support/

Learning Skills

Learning Skills (mq.edu.au/learningskills) provides academic writing resources and study strategies to improve your marks and take control of your study.

- Workshops

- StudyWise

- Academic Integrity Module for Students

- Ask a Learning Adviser

Student Services and Support

Students with a disability are encouraged to contact the Disability Service who can provide appropriate help with any issues that arise during their studies.

Student Enquiries

For all student enquiries, visit Student Connect at ask.mq.edu.au

IT Help

For help with University computer systems and technology, visit http://www.mq.edu.au/about_us/offices_and_units/information_technology/help/.

When using the University's IT, you must adhere to the Acceptable Use of IT Resources Policy. The policy applies to all who connect to the MQ network including students.

Graduate Capabilities

PG - Capable of Professional and Personal Judgment and Initiative

Our postgraduates will demonstrate a high standard of discernment and common sense in their professional and personal judgment. They will have the ability to make informed choices and decisions that reflect both the nature of their professional work and their personal perspectives.

This graduate capability is supported by:

Learning outcomes

- Describe the safety and ethics associated with the use of new technologies in public health.
- Demonstrate critical thinking and problem solving skills in relation to a health system problem and identify solutions.

Assessment tasks

- Written Assignment
- Reflection

PG - Discipline Knowledge and Skills

Our postgraduates will be able to demonstrate a significantly enhanced depth and breadth of knowledge, scholarly understanding, and specific subject content knowledge in their chosen fields.

This graduate capability is supported by:

Learning outcomes

- Demonstrate an understanding of basic Public Health Informatics.
- Demonstrate the ability to interpret results from Public Health Informatics studies, with considerations of the limitations.
- Demonstrate the ability to evaluate a new health technology intervention.
- Describe the safety and ethics associated with the use of new technologies in public health.
- Demonstrate critical thinking and problem solving skills in relation to a health system

problem and identify solutions.

Assessment tasks

- Online Quiz
- Major Project
- Written Assignment

PG - Critical, Analytical and Integrative Thinking

Our postgraduates will be capable of utilising and reflecting on prior knowledge and experience, of applying higher level critical thinking skills, and of integrating and synthesising learning and knowledge from a range of sources and environments. A characteristic of this form of thinking is the generation of new, professionally oriented knowledge through personal or group-based critique of practice and theory.

This graduate capability is supported by:

Learning outcomes

- Demonstrate the ability to interpret results from Public Health Informatics studies, with considerations of the limitations.
- Demonstrate the ability to evaluate a new health technology intervention.
- Demonstrate critical thinking and problem solving skills in relation to a health system problem and identify solutions.

Assessment tasks

- Major Project
- Written Assignment

PG - Research and Problem Solving Capability

Our postgraduates will be capable of systematic enquiry; able to use research skills to create new knowledge that can be applied to real world issues, or contribute to a field of study or practice to enhance society. They will be capable of creative questioning, problem finding and problem solving.

This graduate capability is supported by:

Learning outcomes

- Demonstrate the ability to evaluate a new health technology intervention.
- Demonstrate critical thinking and problem solving skills in relation to a health system problem and identify solutions.

Assessment tasks

- Major Project

- Written Assignment

PG - Effective Communication

Our postgraduates will be able to communicate effectively and convey their views to different social, cultural, and professional audiences. They will be able to use a variety of technologically supported media to communicate with empathy using a range of written, spoken or visual formats.

This graduate capability is supported by:

Learning outcomes

- Demonstrate the ability to evaluate a new health technology intervention.
- Describe the safety and ethics associated with the use of new technologies in public health.

Assessment tasks

- Online Quiz
- Major Project
- Written Assignment
- Reflection

PG - Engaged and Responsible, Active and Ethical Citizens

Our postgraduates will be ethically aware and capable of confident transformative action in relation to their professional responsibilities and the wider community. They will have a sense of connectedness with others and country and have a sense of mutual obligation. They will be able to appreciate the impact of their professional roles for social justice and inclusion related to national and global issues

This graduate capability is supported by:

Learning outcome

- Describe the safety and ethics associated with the use of new technologies in public health.

Assessment tasks

- Written Assignment
- Reflection