HSYP8105
Systems Science in Healthcare
Session 2, Special circumstances 2021

*Medicine, Health and Human Sciences Faculty level units*

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**Session 2 Learning and Teaching Update**

The decision has been made to conduct study online for the remainder of Session 2 for all units WITHOUT mandatory on-campus learning activities. Exams for Session 2 will also be online where possible to do so.

This is due to the extension of the lockdown orders and to provide certainty around arrangements for the remainder of Session 2. We hope to return to campus beyond Session 2 as soon as it is safe and appropriate to do so.

Some classes/teaching activities cannot be moved online and must be taught on campus. You should already know if you are in one of these classes/teaching activities and your unit convenor will provide you with more information via iLearn. If you want to confirm, see the list of units with mandatory on-campus classes/teaching activities.

Visit the [MQ COVID-19 information page](https://unitguides.mq.edu.au/unit_offerings/134483/unit_guide/print) for more detail.
General Information

Unit convenor and teaching staff
Yvonne Zurynski
yvonne.zurynski@mq.edu.au

Credit points
10

Prerequisites
Admission to MPH or MPH(Res)

Corequisites

Co-badged status

Unit description
This unit provides you with a new way of looking at how health systems work together. Health care systems are complex consisting of many interacting components, people and perspectives. You will learn about systems theories (for example, resilience, consumer participation, and sociotechnical perspectives) and apply them to examine policy and practice underpinning public health problems. The unit is delivered by experts in health systems, including digital health informatics, safe systems and systems evaluation methods. You will learn through guest lectures, tutorials, online activities and assessments requiring you to analyse real-life case studies and evaluate health interventions.

Important Academic Dates
Information about important academic dates including deadlines for withdrawing from units are available at https://students.mq.edu.au/important-dates

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

ULO1: Demonstrate an understanding of the current discipline of systems thinking and how it underpins healthcare

ULO2: Discuss the rationale for adopting a systems approach to address population health issues

ULO3: Examine the role of digital health and health informatics in systems thinking

ULO4: Analyse and apply a range of theoretical concepts related to systems thinking including resilience, sociotechnical systems, safe systems, consumer participation and
ULO5: Examine the challenges of adopting a systems approach to public health

General Assessment Information


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


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% per day penalty including weekends and public holidays. If you submit the assessment task 10 days or more beyond the due date, without an approved extension, you will be awarded a maximum of 50% of the overall assessment marks.

For example:

<table>
<thead>
<tr>
<th>Due date</th>
<th>Received</th>
<th>Days late</th>
<th>Deduction</th>
<th>Raw mark</th>
<th>Final mark</th>
</tr>
</thead>
<tbody>
<tr>
<td>Friday 14th</td>
<td>Saturday 15th</td>
<td>1</td>
<td>5%</td>
<td>75%</td>
<td>70%</td>
</tr>
<tr>
<td>Friday 14th</td>
<td>Monday 17th</td>
<td>3</td>
<td>15%</td>
<td>75%</td>
<td>60%</td>
</tr>
<tr>
<td>Friday 14th</td>
<td>Tuesday 25th</td>
<td>11</td>
<td>55%</td>
<td>75%</td>
<td>50% (capped)</td>
</tr>
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**Unit guide** HSYP8105 Systems Science in Healthcare

## Assessment Tasks

<table>
<thead>
<tr>
<th>Name</th>
<th>Weighting</th>
<th>Hurdle</th>
<th>Due</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple choice questions and reflection</td>
<td>20%</td>
<td>No</td>
<td>Week 4</td>
</tr>
<tr>
<td>Analysis and response to a case study of an incident in healthcare</td>
<td>40%</td>
<td>No</td>
<td>Week 8</td>
</tr>
<tr>
<td>Planning for the evaluation of a health intervention</td>
<td>40%</td>
<td>No</td>
<td>Week 12</td>
</tr>
<tr>
<td>Reflective journal</td>
<td>0%</td>
<td>No</td>
<td>Week 14</td>
</tr>
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### Multiple choice questions and reflection

Assessment Type 1: Quiz/Test  
Indicative Time on Task 2: 10 hours  
Due: **Week 4**  
Weighting: **20%**

A brief assessment on the learnings from the first 3 weeks and a personal reflection on the learning so far.

On successful completion you will be able to:

- Demonstrate an understanding of the current discipline of systems thinking and how it underpins healthcare
- Analyse and apply a range of theoretical concepts related to systems thinking including resilience, sociotechnical systems, safe systems, consumer participation and systems evaluation methods to public health issues

### Analysis and response to a case study of an incident in healthcare

Assessment Type 1: Case study/analysis  
Indicative Time on Task 2: 40 hours  
Due: **Week 8**  
Weighting: **40%**

A case study analysis about an incident in healthcare taking a systems thinking approach.
On successful completion you will be able to:

- Demonstrate an understanding of the current discipline of systems thinking and how it underpins healthcare
- Discuss the rationale for adopting a systems approach to address population health issues
- Examine the role of digital health and health informatics in systems thinking
- Analyse and apply a range of theoretical concepts related to systems thinking including resilience, sociotechnical systems, safe systems, consumer participation and systems evaluation methods to public health issues
- Examine the challenges of adopting a systems approach to public health

Planning for the evaluation of a health intervention

Assessment Type 1: Presentation
Indicative Time on Task 2: 35 hours
Due: Week 12
Weighting: 40%

A brief presentation describing the approach and plan for the evaluation of a public health intervention or program.

On successful completion you will be able to:

- Demonstrate an understanding of the current discipline of systems thinking and how it underpins healthcare
- Analyse and apply a range of theoretical concepts related to systems thinking including resilience, sociotechnical systems, safe systems, consumer participation and systems evaluation methods to public health issues
- Examine the challenges of adopting a systems approach to public health

Reflective journal

Assessment Type 1: Reflective Writing
Indicative Time on Task 2: 7 hours
Due: Week 14
Weighting: 0%
A personal reflection journal on the learning journey each week. This assessment task is compulsory.

On successful completion you will be able to:
- Demonstrate an understanding of the current discipline of systems thinking and how it underpins healthcare
- Discuss the rationale for adopting a systems approach to address population health issues
- Examine the role of digital health and health informatics in systems thinking
- Analyse and apply a range of theoretical concepts related to systems thinking including resilience, sociotechnical systems, safe systems, consumer participation and systems evaluation methods to public health issues
- Examine the challenges of adopting a systems approach to public health

1 If you need help with your assignment, please contact:
- the academic teaching staff in your unit for guidance in understanding or completing this type of assessment
- the Learning Skills Unit for academic skills support.

2 Indicative time-on-task is an estimate of the time required for completion of the assessment task and is subject to individual variation

Delivery and Resources
Unit Organisation
This is a ten credit point unit run over a 13 week session. Further information is available via the online Learning Management System (LMS) iLearn http://ilearn.mq.edu.

Readings
The readings for each week will be listed in iLearn using the Leganto system. Leganto is the reading list management system, which you can access through your iLearn unit. More information on Leganto is available here: http://libguides.mq.edu.au/leganto

Readings marked as ‘required’ are essential for completion in the marked week. Some readings may be included that are marked as ‘recommended’ or ‘secondary sources’, these are additional materials that may be of interest to you. Please use these at your discretion.
Technology and equipment

Off-campus

To study optimally when off campus you will need to have access to a reliable internet connection to retrieve unit information and at times to join interactive sessions (e.g., zoom) or submit assessment tasks via iLearn.

On-campus

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

Where learning activities (such as tutorials and other small group learning activities) are offered on-campus an online version will be available for those students who choose to continue their studies online (selected via eStudent).

Policies and Procedures

Macquarie University policies and procedures are accessible from Policy Central (https://policies.mq.edu.au). 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

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

To find other policies relating to Teaching and Learning, visit Policy Central (https://policies.mq.edu.au) and use the search tool.

Student Code of Conduct

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

Results

Results published on platform other than eStudent, (e.g., iLearn, Coursera etc.) 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 or if you are a Global MBA student contact globalmba.support@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 help you improve your marks and take control of your study.

- Getting help with your assignment
- Workshops
- StudyWise
- Academic Integrity Module

The Library provides online and face to face support to help you find and use relevant information resources.

- Subject and Research Guides
- Ask a Librarian

**Student Enquiry Service**

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

If you are a Global MBA student contact globalmba.support@mq.edu.au

**Equity 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.

**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.