



MMPH6178 Health Informatics (Summer Semester)

Coordinator: Dr Ashish Joshi

Course Description:

This course will provide students with an introduction to the fundamentals of population health informatics, its history, relevant concepts and related informatics domains. The course will further describe the fundamentals of computing, data, information and knowledge principles, information architecture of population health systems and role of data standards in the development of population health information systems. Students will be introduced to some of the examples of applications of health informatics such as personal health record, electronic health record, telehealth, decision support system, mobile health and other emerging technological innovations that can contribute to the improvement of population health. The course will also provide students with a knowledge of issues related to privacy, security and confidentiality related to health data collection, storage, and its processing. Students will also be introduced to concepts of evaluating quality of health information on the internet and design principles that need to be taken into consideration when developing human centered health information systems.

Prerequisite: CMED6901 Health leadership and management

Summer Term 3 (Monday)

Contact person: Dr Bedru Mohammed/ Mr Kenneth Hon

Date	Time	Lecture Topic	Lecturer	Venue
15 May 2023	HK: 7:00–10:00 pm (NY: 7:00-10:00 am)	1. Introducing Population Health Informatics	Dr. Ashish Joshi	Online
22 May 2023	HK: 7:00–10:00 pm (NY: 7:00-10:00 am)	2. Data Information Knowledge	Dr. Ashish Joshi	Online
29 May 2023	HK: 7:00–10:00 pm (NY: 7:00-10:00 am)	3. Interoperability, standards and Health Information Exchange	Dr. Ashish Joshi	Online
05 June 2023	HK: 7:00–10:00 pm (NY: 7:00-10:00 am)	4. Population Health Informatics: Applications, Interventions and Innovations	Dr. Ashish Joshi	Online
12 June 2023	HK: 7:00–10:00 pm (NY: 7:00-10:00 am)	5. Introduction to consumer health informatics	Dr. Ashish Joshi	Online
19 June 2023	HK: 7:00–10:00 pm (NY: 7:00-10:00 am)	6. Quality of Health Information over the internet (Hands on exercise)	Dr. Ashish Joshi	Online
26 June 2023	HK: 7:00–10:00 pm (NY: 7:00-10:00 am)	7. Mobile Health Interventions	Dr. Ashish Joshi	Online
03 July 2023	HK: 7:00–10:00 pm (NY: 7:00-10:00 am)	8. Human centered design of Population Health Information Systems	Dr. Ashish Joshi	Online
10 July 2023	HK: 7:00–10:00 pm (NY: 7:00-10:00 am)	Tutorial 1	Dr. Ashish Joshi	Online
17 July 2023	HK: 7:00–10:00 pm (NY: 7:00-10:00 am)	Tutorial 2	Dr. Ashish Joshi	Online

Course Assessment:

- Discussion Forums:** Students will need to participate in an online discussion and will need to post 1 response each to every discussion topic, and respond to 1 postings from classmates for that particular week. There will be 3 discussion topics covered during this particular course. This will contribute to 15% of the overall grade.
2. **Quizzes:** There will be 2 short quizzes. The quizzes will contribute 20% to the overall grade.
3. **Assignment:** Two assignments will be given and this will contribute to 30% of the overall grade.
4. **Final Project:** There will be a final exam that will include a project submission and this will contribute to 35% of the overall grade.

Evaluation criteria

Grading: The relative weight of each course component is as follows:



Assessment	Weight
Discussion forums	10%
Quizzes	20%
Assignments	30%
Final Project	30%
Participation	10%
	100%

Recommended
Textbook:

Population Health Informatics: Driving evidence based solutions into Practice Joshi A, Thorpe and Waldron L.

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