MASTER OF HEALTH INFORMATICS WEBINAR
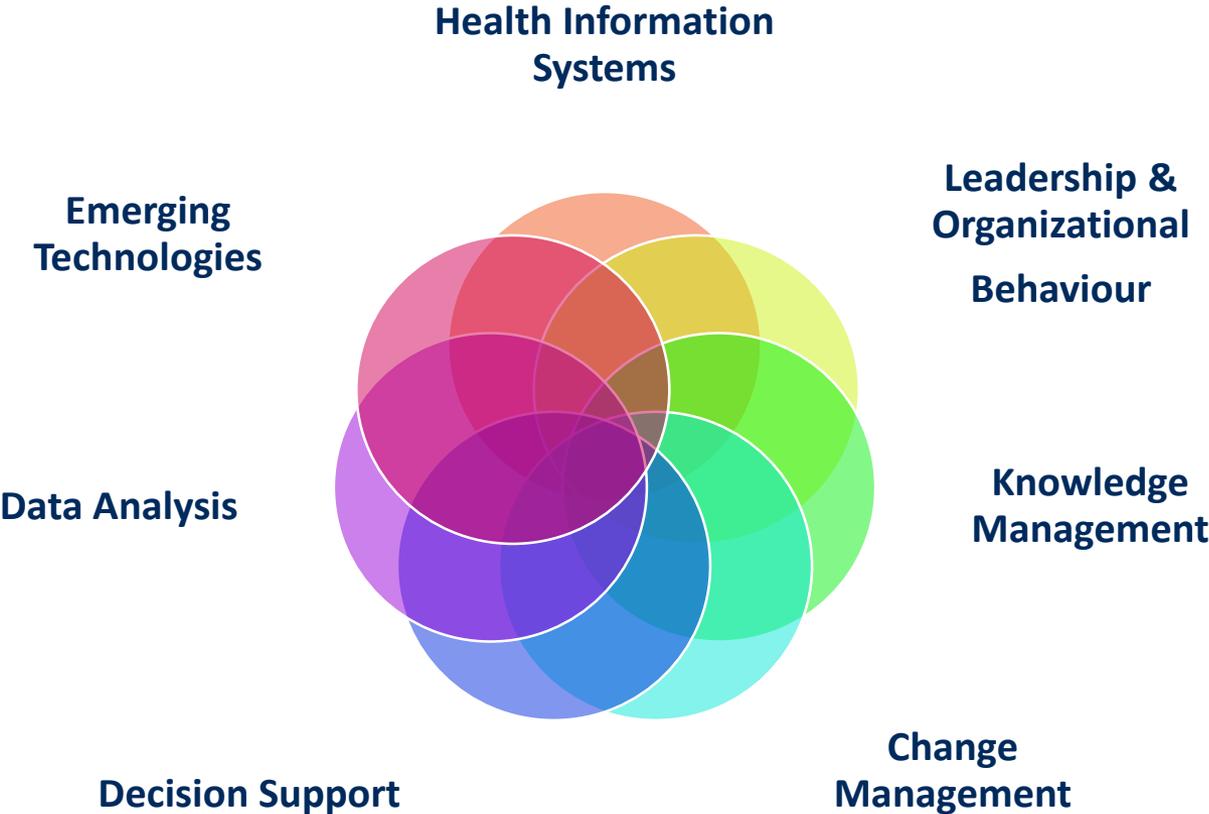
WHAT TO EXPECT TODAY

1. What is the advantage of MHI?
    - The network
    - Critical thinking

2. What do I gain in terms of career?
    - Fit for select positions
    - Compensation

3. How does MHI work?
    - The program
        - MHI & Executive MHI
    - The application

WHAT IS HEALTH INFORMATICS

Health informatics is the interdisciplinary study of the design, development, adoption and application of information technology (IT) – based innovations in healthcare services delivery, management and planning.

MHI HEALTH INFORMATICS FOCUS

Health Information Systems

Leadership & Organizational Behaviour

Emerging Technologies

Knowledge Management

Data Analysis

Change Management

Decision Support

- 1 Advantage

WHY UNIVERSITY OF TORONTO?

Maclean's magazine's annual 2016 ranking at #1

"The influencers participating in the study named a U of T degree as the 'highest quality' of all universities surveyed in Canada and its students as the No.1 'leaders of tomorrow.'

U of T has done well this year in several international rankings:

- 21st on this week's *U.S. News & World Report* rankings
- 22nd on the prestigious Times Higher Education (THE) annual rankings of the top universities in the world"

- UofT Bulletin: Macleans Lauds UofT, Oct 26, 2016.

Institute of Health Policy, Management and Evaluation (IHPME) within Dalla Lana School of Public Health – a top-ranked network at our fingertips–

- Access to health leaders for instruction & practicum placements
- Home to acclaimed researchers and educators
- Curriculum development to meet healthcare market needs

MHI HEALTH INFORMATICS PROFESSIONALS

Well-positioned at the nexus of healthcare's clinical, business, administrative and patient systems:

- Develop strategy, create policy and make high-level decisions
- Contribute system analysis, solution architecture and project management
- Facilitate the development, implementation and management of technological applications and change

WHY ARE WE HERE?

MHI enables professionals to build health informatics careers across a full spectrum of organizational, clinical and technology domains, structures and systems in healthcare.

MHI allows a return on your educational investment by offering a professional pathway within a high-demand arena.

- Build critical thinking skills and professional network
- Breadth and depth of knowledge to position well in specialized market.

Health informatics is our shared way to make a difference in healthcare.

YOU AND MHI?

Q: What personality traits are best for the field?

A: You see the sharing and use of information as enabling and transformative within healthcare.

You have embraced the promise and recognized the challenges of informatics within healthcare.
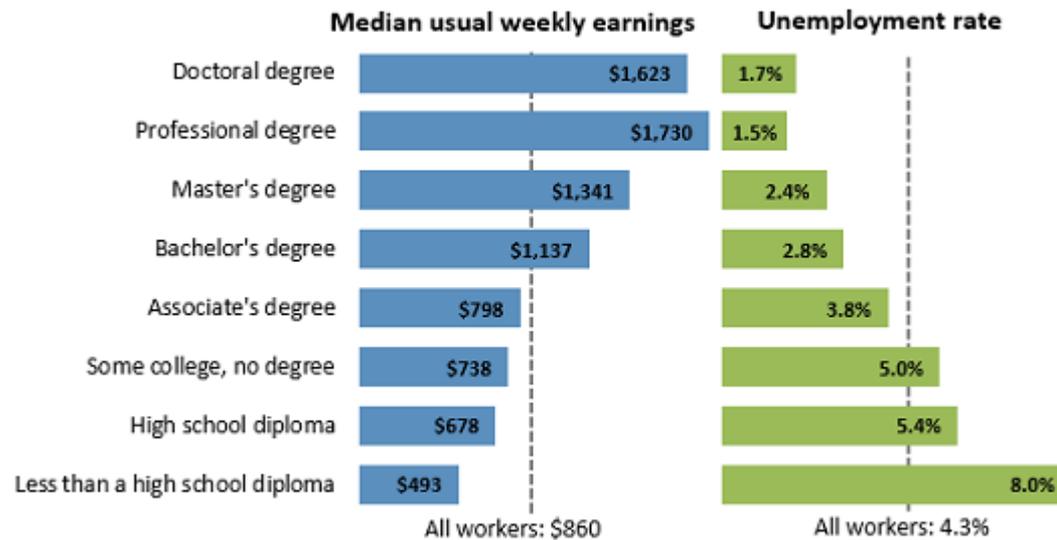
As a topline, you demonstrate

1. Excellent critical thinking, analysis and communication skills
2. Orientation toward achievement, collaboration, facilitation, and leadership
3. Capacity for systems thinking, change management, and an aptitude for strategy

•2 Career Gain

PROFESSIONAL/MASTER'S DEGREE PROSPECTS

Earnings and unemployment rates by educational attainment, 2015

Note: Data are for persons age 25 and over. Earnings are for full-time wage and salary workers.
Source: U.S. Bureau of Labor Statistics, Current Population Survey

http://www.bls.gov/emp/ep_chart_001.htm

Professional Roles at 'High Risk' of Skills Shortage

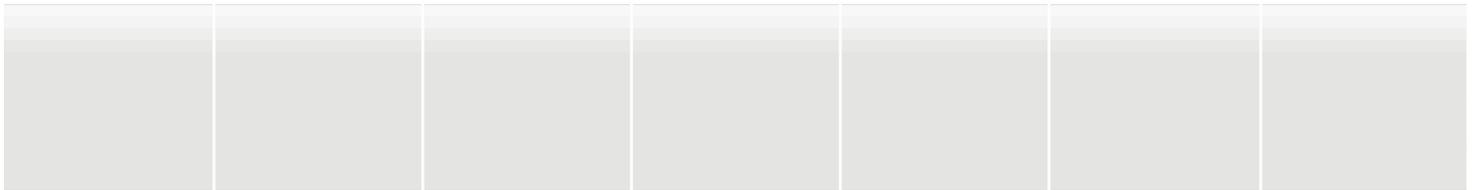|	Low Investment Scenario	Moderate Investment Scenario	High Investment Scenario
Senior IT Management			■
Architecture	■	■	■
Application Implementation and Support			■
Security		■	■
Quality Assurance and Testing			■
Privacy		■	■
Standards		■	■
Data Quality Management		■	■
Information Governance		■	■
Risk Management			■
Business Analysis		■	■
Change Management			■
Project Management			■
Analysis and Evaluation (Data Analytics roles)	■	■	■
Senior Clinical Information		■	■
Clinical Analysis		■	■

COACH HUMAN RESOURCES OUTLOOK 2014 – 2019

**Estimated Health Informatics and
Health Information Management Employment in 2014
and Projected Five-Year Hiring Requirements, 2014 to 2019**

	Information Technology	Health Information Management	Other Professional Roles*	Total
2014 Estimated Employment	20,500	5,700	13,700	39,900
Five-Year Replacement Demand	2,581	718	1,724	5,023
Five-Year Growth Demand:				
Low Investment Scenario	670	406	62	1,138
Moderate Investment Scenario	2,007	723	815	3,545
High Investment Scenario	4,145	1,224	1,817	7,186
Five-Year Hiring Requirements (Sum of Replacement Demand + Growth Demand)				
Low Investment Scenario	3,251	1,124	1,786	6,161
Moderate Investment Scenario	4,588	1,441	2,539	8,568
High Investment Scenario	6,726	1,942	3,541	12,209

* Other Professional Roles: Canadian Health System Management and Administration, Organizational and Behavioural Management, Project Management, Analysis and Evaluation, and Clinical Informatics.

coachorgnew.com/professionaldevelopment/HIP-Core-Competencies

IATION

CAREER PATHWAYS

Q: What settings are typical for MHI graduate jobs?

A: The MHI career can be built in a variety of settings. Students are generally placed within career track settings in 4-6 months post-grad, if not sooner.

Hospital / Agency (e.g., CCO, OTN, HQO)

BA	Sr. BA	PM	Mgr	Sr. Mgr	Director

Exec Dir.	VP/CIO	SVP	CEO

Consulting (e.g., KPMG, Telus, Deloitte)

Consultant	Sr. Consultant	Mgr	Sr. Mgr	Partner

Specialist Roles & Private Sector

Business Strategist	Team Lead	Evaluation Specialist	Coordinator	Product Manager

•3 Program

TWO OPTIONS: ONE DEGREE

MHI & EMHI

MHI

For candidates seeking to transform career to HI focus.

- 16 month program
    - September to December the next year
    - Full time over 4 consecutive semesters
    - 5 half courses per semester
    - 4 month practicum placement:
        - Clinical
        - Technical
        - Analytical
        - Business Intelligence

- Practicum is 16 hours/ 35 per week x 16 weeks in summer semester:
        - Hospitals
        - Health research organizations
        - Government and government agencies
        - Consulting firms
        - Planning bodies
        - Information and communication technology vendor organizations
        - Pharmaceutical firms
        - Medical device manufacturers
        - Integrated delivery systems
        - Community-based agencies

Q: Am I able to work while completing MHI? What is the workload?

A: We recommend no more than 10 -15 hours per week.

Q: : Are practicum placements guaranteed? Are they paid?

A: Some students initiate their own opportunities, and the course instructor develops the practicum structure. A stipend is suggested. Practicum placements are paid up to $16k, however 20+ are unpaid.

EMHI
Executive Stream

For candidates seeking to refine HI career direction, with credentials.

22 month program
- Modular format
- Approx. 12h classes every 3-4 weeks
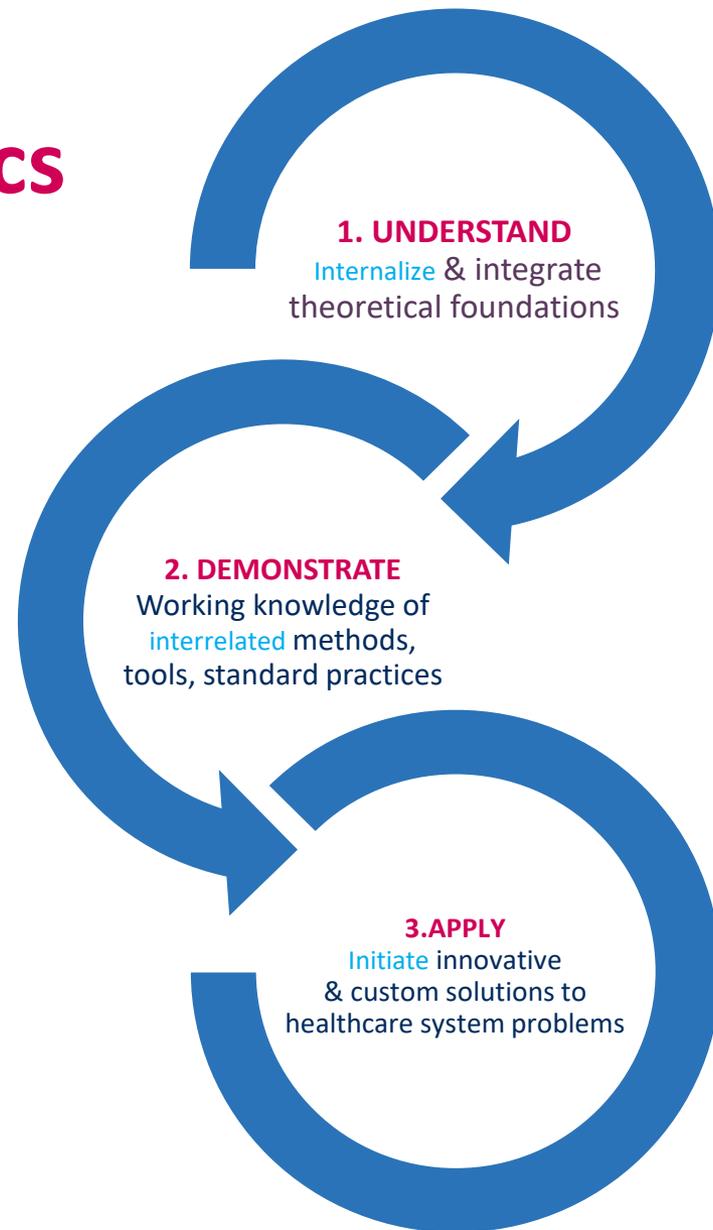- 400 hour project to be supported by candidate's employer
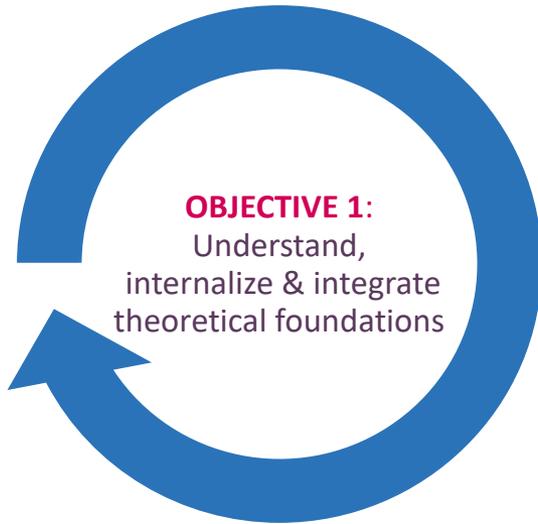
Q: Do I need a project before I apply?

A: No, but you need general support from your employer. We develop the project together.

Q: How is the workload?

A: In addition to the modular format, students make time for group work and 2 courses that run weekly (evenings). The workload is heavy but students report it as manageable.
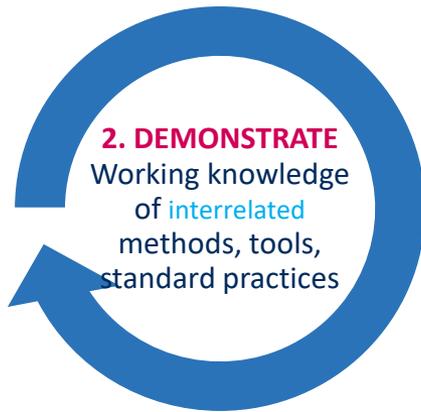
MHI OBJECTIVES
of Health Informatics

1. UNDERSTAND
Internalize & integrate
theoretical foundations

2. DEMONSTRATE
Working knowledge of
interrelated methods,
tools, standard practices

3.APPLY
Initiate innovative
& custom solutions to
healthcare system problems

OBJECTIVE 1:
Understand, internalize & integrate theoretical foundations

Map breadth and depth of health informatics to build a base of theoretical and practical understanding.

o   MHI1001H : ICT in Health Care

o   MHI1002H: Complexity of Clinical Care

o   MHI2001H: Health Informatics I

o   INF1003H: Information Systems, Services and Design

   o   Critical analysis of the design fabrication, deployment, use and maintenance of information systems and services.

2. DEMONSTRATE Working knowledge of interrelated methods, tools, standard practices

INF1341H: Analyzing Information Systems

- o Mediate among system developers, business managers, clinical/health users.

MHI2002H: Health Informatics II

- o Applications, vocabulary and standards, organizational, ethical, legal issues.

MHI2007H: Quantitative Methods + INF2183H: Knowledge Management and Systems

- o Create, manage and transfer information and knowledge from data to meet health care organizational needs.

MHI2003H: Consumer and Public Health Informatics

- o Studies and methods on making information accessible to consumers, with an overlap on public health informatics.

3.APPLY
Initiate innovative
& custom solutions
to healthcare system
problems

MHI2004H: Human Factors and Change Management
o   Techniques and issues relevant to HI adoption in complex environments

MHI2008H: Project Management
o   Develop capacity for solution architecture

MHI2005Y: Health Informatics Practicum (MHI only)
o   Placements onsite.

MHI2015Y: Health Informatics Project (EMHI only)

HAD5010H: Canada's Health System and Policy I
o   critically analyze key issues and trends in Canada's health care system

Advanced Topics
o   Generalize skills across multiple contexts through assessment, design and critical evaluation of e-health innovations (MHI2009H); strategic frameworks (MHI2006H), performance measurement (HAD5726H) and one elective

MHI
GRADUATE
COMPETENCIES

Knowledge of healthcare delivery policies and systems that translates to -

- Ability to facilitate information to ensure patient/consumer privacy and confidentiality, improve processes, and enhance outcomes

- Skill at contributing to developing HI infrastructure

- Ability to design and implement processes for acquiring and analyzing data

- Aptitude in evaluating the quality of health information services and systems, classification systems, technology and business systems

- Skill at analyzing data, producing information and transferring knowledge to meet needs of clinicians, managers and decision makers

- Ability to critically analyze systemic, organizational and cultural issues associated with implementation of initiatives across domains

- Skill at managing change within diverse communities

- Ability to provide leadership and articulate ideas with strong communications skills

APPLICATION QUESTIONS?

Q: Do I need healthcare and information technology in my background?

A: Ideally, but it is alright to be very strong in one area and have less experience in another.

Q: Is there a lot of IT coding/programming involved? Do I need to know how?

A: MHI is an academic program and not a space for technical training. Knowledge is an asset, but the program is more focused on building critical thinking and management ability at a systems level.

Q: What is the cost?

A: Tuition for MHI & EMHI is identical. It is currently at ~$14K total.

Q: Do both of my reference need to be academic?

A: If they are not, contact the Graduate Assistant after applying to notify.

MHI
EMHI

Applications Open Now

VISIT
http://ihpme.utoronto.ca/academics/pp/mhi/

TO APPLY
http://ihpme.utoronto.ca/community/students/apply/

ADMISSIONS QUESTIONS?
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Learn More?

HEALTH INFORMATICS RESEARCH

MSc Health Services Research
PhD Health Services Research

MASTER OF HEALTH INFORMATICS

MHI Professional Program
MHI Executive Professional Program

Institute of Health Policy, Management & Evaluation
UNIVERSITY OF TORONTO