

Survey of Health Informatics Programs and Health Information Management Programs in Canada

2010-2011

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National Institutes of Health Informatics

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This survey consists of this summary page followed by a detailed page for each school currently offering Health Informatics and Health Information Management programs. Several programs in the planning phase are also included. These planned programs do not have a detailed page.

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Educational Organization	Program Name	Type of Credential ¹
HEALTH INFORMATICS PROGRAMS (alphabetical order)		
Calgary, University of	eHealth Research	MSc, PhD
Centennial College	Health Informatics Technology	AD
COACH	Health Informatics Training System	C
Conestoga College	Applied Health Informatics	GC
Conestoga College	Health Informatics Management	BAHSc
Conestoga College	Information Management in Healthcare	GC
Dalhousie University	Informatics	BINF
Dalhousie University	Health Informatics	MHI
Dalhousie University	Health Informatics	PhD
George Brown College	Health Informatics	GC
McGill University	Epidemiology and Biostatistics	D, MSc, PhD
McMaster University	eHealth	MSc
Memorial University	Applied Health Services Research	MAHSR
Memorial University	Applied Health Services Research	PhD
National Institutes of Health Informatics	Health Informatics	CA
Ontario Institute of Technology, University of	Health Informatics	MHSc
Ottawa, University of	Health Systems	MScHS
Sherbrooke, University of	Health Informatics, Standards in Health Informatics	GC
Toronto, University of	Health Informatics	MHI
Victoria, University of	Health Information Science (with or w/o Computer Science)	BSc
Victoria, University of	Health Information Science	MSc
Victoria, University of	Nursing & Health Information	MN & MSc
Victoria, University of	Health Informatics	PhD
Waterloo, University of	Health Informatics Option in Health Studies	BSc
Waterloo, University of	Health Informatics	MHI
York University	Health Informatics	BHS
York University	Health Industry Specialization in Information Technology	BA
York University	Health Informatics	C
HEALTH INFORMATION MANAGEMENT PROGRAMS (alphabetical order)		
British Columbia Institute of Technology (BCIT)	Healthcare Management & Healthcare Quality Management	C & ASC
Canadian Healthcare Association	Health Information Management	C
Douglas College	Health Information Management	D
Fleming College	Health Information Management	D
George Brown College	Health Information Management	D
Ontario Institute of Technology	Health Information Management Specialization in Health Science	BHSc
Red River College	Health Information Management	D
Ryerson University	Health Information Management	BHA
Sask. Institute of Applied Science & Tech. (SIAST)	Health Information Management	D
Southern Alberta Institute of Technology (SAIT)	Health Information Management	D
St. Lawrence College	Health Information Management	D
HEALTH INFORMATICS PROGRAMS IN PLANNING PHASE		
Northern Alberta Institute of Technology	Health Informatics	B
Ryerson University	Health Informatics	C & M
University of Alberta	Health Informatics	B
Algoma University	TBD	TBD

Footnotes

1. Credential Codes:
AD: Advanced Diploma ASC: Advanced Specialty Certificate B: Bachelor Degree BAHSc: Bachelor of Applied Health Science BCSc: Bachelor of Computer Science
BSc: Bachelor of Science BHA: Bachelor of Health Administration C: Certificate D: Diploma GC: Graduate Certificate
M: Master Degree MAHSR: Master of Applied Health Services Research MSc: Master of Computer Science Master of Health Informatics MHSc: Master of Health Science
MSc: Master of Science MN: Master of Nursing
PhD: Doctorate of Philosophy

British Columbia Institute of Technology (BCIT)

Program Name

**Healthcare Management
Healthcare Quality Management**

CONTACT INFORMATION

Department	Health Care Management
Faculty	Health Sciences
Program Contact Name	Shan Satoglu
Telephone	604-451-6975
Email	shan_satoglu@bcit.ca
Street	3700 Willingdon Avenue
City	Burnaby
Province	BC
Postal Code	V5G 3H2

PROGRAM INFORMATION

Program Academic Level	Undergraduate
Program Comprehensiveness	Full Program
Program Delivery	Asynchronous Distance
Program Attendance	Distance Only
Program Typical Duration	2 years (while employed full-time)
Credential Awarded	Certificate & C 1) Health Care Management Level 1 Certificate Advanced Specialty C 2) Health Care Management Level 2 Certificate Certificate ASC 3) Advanced Specialty Certificate in Health Care Quality Management

Type of Professional Produced by Program

Mostly Clinical Health Informatics and Applied Health Informatics; some Health Information Management

Type of Role(s) Addressed by Program

Clinical Systems Analyst, Privacy Officer, Project Manager, Director, Telehealth Manager/Coordinator, Manager Performance Improvement, Manager Risk Management, Manager QI/QM

Candidate Pre-requisites for Program

- At least a two-year diploma or a degree in a healthcare or related field (e.g., Nursing, Medical Laboratory Science, Medical Imaging, etc.).
- Two years experience in a health care setting.
- A suitable combination of work experience and education (as determined by the program head) may also be considered.
- English 12 (B) or English Language Proficiency.

The actual distribution of highest academic training achieved by our students at the time of admission is approx: 45% diploma, 45% degree, 5% graduate degree, 5% other. Most have 10-15 years of clinical healthcare experience. Most students (>90%) are working full time in a public healthcare institution. Geographic distribution of students is 15% Ontario, 10% Alberta, and 70% in BC.

Co-op Availability or Requirement

No

Program Cost

\$6000 in total

Program Registration Due Date

October, February, and June (for courses beginning in January, April, and September)

Program Website

www.bcit.ca/health/hcm

Program Admissions Requirement Link

<http://www.bcit.ca/health/hcm/approval.shtml>

Program Application Link

<http://www.bcit.ca/health/study/hcmchecklist.shtml>

Comments on Program

The BCIT Health Care Management department offers advanced specialty certificate programs in health care quality management, health care management, and a set of courses that specifically focus applied health informatics and technology management. Selected courses are integrated with bachelor level degree professional programs such as BCIT's Bachelor of Science in Nursing program. BCIT has the largest post-secondary student population (in headcount) in the province of BC. It is a degree-granting polytechnic institute and is developing applied master-degree programs.

SURVEY OF HEALTH INFORMATICS PROGRAMS IN CANADA

PROGRAM CURRICULUM

Program Curriculum Information Link <http://www.bcit.ca/health/hcm/programs.shtml>

Program Courses:
Health Care Management Level 1

Required Courses:
 HMG 4110 Health Care Organizational Behaviour 1
 HMG 4150 Human Resource Management
 HMG 5120 Health Care Principles of Management
 HMG 5640 BC Health Care Financial Planning and Management
 HMG 7180 Canadian Health System
 HMG 7260 Health Labour Relations

Electives Available:
 HMG 7500 Project Management in Health Care
 HTMT 5500 Organizing Teams for Innovation
 HTMT 7300 Leading Technological Change

Program Courses:
Health Care Management Level 2

Required Courses:
 HINS 7200 Information Systems in Health Care
 HMG 5800 Integrative Project
 HMG 7370 Health Care Law: A Management Perspective
 HMG 7700: Total Quality Management and CQI Tools

Electives Available:
 HINS 5700 Implementing Clinical Information Systems
 HITM 5100 Introduction to Health Informatics Technology Management
 HMG 5740 Performance Management and Measurement
 HMG 5760 Integrating Quality, Risk and Utilization Management

Program Courses:
Health Care Quality Management

Required Courses:
 HINS 7200 Information Systems in Health Care
 HMG 5740 Performance Management and Measurement
 HMG 5760 Integrating Quality, Risk and Utilization Management
 HMG 5800 Integrative Project
 HMG 7500 Project Management in Health Care
 HMG 7700 Total Quality Management and CQI Tools
 HTMT 5500 Organizing Teams for Innovation
 HTMT 7300 Leading Technological Change

FACULTY ASSOCIATED WITH PROGRAM

	Last Name	First Name	Department	Faculty	Rank	Credentials	Research Expertise
Full-Time Dedicated to Program	Satoglu	Shan	Health Care Management	Health Sciences		BSc, MBA	Management of Technology, Health Informatics, eLearning, Innovation, Knowledge Management, Entrepreneurship, Technology Clusters

University of Calgary

Program Name eHealth Research

CONTACT INFORMATION

Research Group	The Health Innovation and Information Technology Centre (HiITeC)
Department	Community Health Sciences
Faculty	Medicine
Program Contact Name	Dr. Chad Saunders
Telephone	403.210.7859
Email	chad.saunders@health.ucalgary.ca
Street	3rd Floor, TRW (Teaching, Research and Wellness) Bldg 3280 Hospital Drive NW
City	Calgary
Province	AB
Postal Code	T2N 4Z6

PROGRAM INFORMATION

Program Academic Level	Graduate
Program Comprehensiveness	Full Program
Program Delivery	Onsite
Program Attendance	Onsite Only
Program Typical Duration	Master's: 2-3 years PhD: - 4-5 years
Credential Awarded	Master's Degree & MSc 1) Master of Science in Health Services Research Doctorate PhD 2) Doctorate of Philosophy in Health Services Research
Type of Professional Produced by Program List Standard Types (e.g., AHI, RDHI, CHI, HIM, ...)	Research Development Health Informatics (Telehealth/e-health-focussed); International ICT-4D
Type of Role(s) Addressed by Program List Standard Specific Roles (e.g., CIO, Internal ...)	Researcher
Candidate Pre-requisites for Program	<ul style="list-style-type: none"> • For all thesis-based programs, the minimum grade-point average (GPA) is 3.2 on a 4-point system; approximately equivalent to a B+ on courses in the last two years of undergraduate study. • MSc Baccalaureate degree or equivalent from a recognized institution Successful applicants typically have a GPA greater than 3.4 • PhD MSc or equivalent from a recognized institution Successful applicants typically have a GPA greater than 3.6
Co-op Availability or Requirement	No
Program Cost	Master's: \$5,439.90 for first year; \$1,582.68 for all years after year 1 PhD: \$5,439.90 for first year; \$1,582.68 for all years after year 1 More cost information at: http://www.grad.ucalgary.ca/fees
Program Registration Due Date	February 1
Program Website	www.ucalgary.ca/hiitec
Program Admissions Requirement Link	http://www.ucalgary.ca/communityhealthsciences/prospective/admission
Program Application Link	http://www.ucalgary.ca/communityhealthsciences/prospective/application
Comments on Program	Focus on: e-learning; global e-health policy; outcomes and evaluation; global e-health; environmental e-health; e-health architecture; ICT4D

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PROGRAM CURRICULUM

Program Curriculum Information Link http://www.ucalgary.ca/communityhealthsciences/files/communityhealthsciences/HSR_Competencies_June_2010.pdf

Program Courses: Master's

Community Health Sciences Core Courses:

MDSC 644 (Fall Block Week): Introduction to Community Health Sciences
 MDSC 642 (Winter Block Week): Determinants of Health I
 MDSC 643.01: Essentials of Biostatistics
 MDSC 647.01: Fundamentals of Epidemiology
 MDSC 659.02: Health Research Methods

Required Courses for Specialization:

MDSC 645.18: Foundations of Health Services Research

Program Courses: PhD

Required Courses for Specialization:

MDSC 645.18: Foundations of Health Services Research
 In consultation with Supervisor select at least two advanced methods courses (at the 600 or 700 level) from the following list:
 MDSC 643.02 – Models for Health Outcomes (Biostatistics II)
 MDSC 705 – Advanced Methods in Health Research
 MDSC 659.07 – Administrative Data Analysis Methodology
 MDSC 711 Systematic Reviews and Meta-analysis
 MDSC 659.05 Qualitative Health Research
 Other advanced methods courses require approval of the Graduate Coordinator.
 At least 2 electives appropriate to the advancement of thesis research topic and agreed upon with the Supervisor.

FACULTY ASSOCIATED WITH PROGRAM

	Last Name	First Name	Department	Faculty	Rank	Credentials	Research Expertise
Full-Time Dedicated to Program	Hebert	Marilynne	Community Health Sciences	Medicine	Associate Professor	BScN; M.Ed, Ph.D.	o evaluating the impact of e-learning and e-mentoring in rural health care, particularly in developing countries as well as e-health applications in the community.
	Saunders	Chad	Community Health Sciences	Medicine & School of Business	Assistant Professor	B.Sc., MBA, PhD	o telecommunications, medical informatics, systems analysis, qualitative methods
	Scott	Richard	Pathology	Medicine	Associate Professor	B.Sc., PhD	o Global e-Health; Global e-Health; Global e-Health Policy; e-Health (Telehealth and Health Informatics); Globalization o Health Services Research; Evaluation; Pragmatic Evaluation; Outcome Indicators o Environmental e-Health o e-Health in Disaster Management

Centennial College

Program Name Health Informatics Technology

CONTACT INFORMATION

Department	Information and Communication Engineering Technology (ICET)	
Faculty	School of Engineering Technology and Applied Science	
Program Contact Name	Ilija Nika, Program Coordinator	Predrag Pesikan, ICET
Telephone	416-289-5000 x 8102	416-289-5000 x 8338
Email	ilia@centennialcollege.ca	ppesikan@centennialcollege.ca
Street	P.O. Box 631, Station A	
City	Toronto	
Province	ON	
Postal Code	M1K 5E9	

PROGRAM INFORMATION

Program Academic Level	Undergraduate		
Program Comprehensiveness	Full Program		
Program Delivery	Onsite		
Program Attendance	Onsite Only		
Program Typical Duration	3 Years/6 Semesters		
Credential Awarded	Advanced Diploma AD	Advanced Diploma in Health Informatics Technology	
Type of Professional Produced by Program List Standard Types (e.g., AHI, RDHI, CHI, HIM,	Health Informatics Professional		
Type of Role(s) Addressed by Program List Standard Specific Roles (e.g., CIO, Internal	Health Informatician, Health Information Systems Analyst, Software Developer, Database and Data Warehouse developer, Computer Programmer /Analyst		
Candidate Pre-requisites for Program	<p>• Admission Requirements Centennial College expects students applying for admission to certificate or diploma programs to present at minimum an Ontario Secondary School Diploma (OSSD) or equivalent or be 19 years of age or older. Possession of minimum admission requirements does not guarantee admission to the program.</p> <p>• Academic Requirements Compulsory English 12C or U or skills assessment, or equivalent Math 11M or U, or 12C or U, or skills assessment, or equivalent</p>		
Co-op Availability or Requirement	Availability		
Program Cost	Year 1: \$2,320.00	Year 2: \$2,309.00	Year 3: \$2,293.00 More information on program costs at: http://www.centennialcollege.ca/TuitionFees
Program Registration Due Date	Applications will be equally considered if received on or before February 1st		
Program Website	http://www.centennialcollege.ca/cgi-bin/FM.cgi?prog=3518		
Program Admissions Requirement Link	http://www.centennialcollege.ca/requirements		
Program Application Link	http://www.centennialcollege.ca/howtoapply		
Comments on Program			

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PROGRAM CURRICULUM

Program Curriculum Information Link <http://www.centennialcollege.ca/cgi-bin/FM.cgi?prog=3518>

Program Courses

<p>Semester 1 COMM-170/171 College Communications 2 COMP-100 Programming I Progress Campus COMP-120 Software Engineering Fundamentals COMP-122 Introduction to Database Concepts GNE-119/GESL-119 Introduction to Canadian Business MATH-175 Functions and Number Systems</p> <p>Semester 2 COMP-123 Programming II COMP-213 Web Interface Design COMP-225 Software Engineering Technologies I COMP-301 Unix/Linux Operating Systems GNE-1 General Education Elective MATH-185 Discrete Mathematics</p>	<p>Semester 3 COMP-214 Advanced Database Concepts COMP-228 JAVA Programming COMP-229 Advanced WEB Application Development COMP-246 Object Oriented Software Engineering ENGL-253 Advanced Business Communications GNE-500 Global Citizenship: from Social Analysis to Social Action</p> <p>Semester 4 CNET-124 Network Technologies CNET-329 Business & ICT COMP-212 Programming III COMP-311 Software Testing and Quality Assurance GNE-1 General Education Elective MATH-210 Statistics and Research Methods</p>	<p>Semester 5 CNET-307 IT Project Management COMP-231 Programming Project COMP-321 Systems Integration COMP-380 Structure of HCIS COMP-381 Tools, Algorithms & Methods for HCIS Tech Elective</p> <p>Semester 6 COMP-309 Data Warehousing and Data Mining in HCIS COMP-313 Software Development Project II COMP-382 Computer Techniques in Medical Imaging COMP-383 Data Security and Privacy Policies in HCIS COMP-384 Telehealth Tech Elective EMPS-102 Employment Skills II</p>
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FACULTY ASSOCIATED WITH PROGRAM

	Last Name	First Name	Department	Faculty	Rank	Credentials	Research Expertise
Full-Time but not Dedicated to Program	Khan	Mohamed	ICET	School of Engineering Technology and Applied Science	Professor	Bachelor in Comp.Sc.	
	Harlal	Bhim	ICET	School of Engineering Technology and Applied Science	Professor	Bachelor in Elec. Engineering	
	Filotti	Joanne	ICET	School of Engineering Technology and Applied Science	Professor	Masters in C.Sc.	
	Haberman	Paul	ICET	School of Engineering Technology and Applied Science	Professor	MBA	
	Nika	Ilia	ICET	School of Engineering Technology and Applied Science	Professor	Ph.D. in Applied Mathematics	
	Parshad	Narendra	ICET	School of Engineering Technology and Applied Science	Professor	Masters in C.Sc.	
	Lac	Hao	ICET	School of Engineering Technology and Applied Science	Professor	Ph.D. in C.Sc.	
Part-Time Dedicated to Program	Fajardo	Cindy	ICET	School of Engineering Technology and Applied Science	Associate Professor	Masters in Health Informatics	
	Lind	Keneth	ICET	School of Engineering Technology and Applied Science	Associate Professor	Bachelor in Engineering	

Canadian Healthcare Association

Program Name Health Information Management

CONTACT INFORMATION

Department	N/A
Faculty	N/A
Program Contact Name	Director, Health Information Management Program
Telephone	613-539-5336
Email	himdirector@cha.ca
Street	17 York Street
City	Ottawa
Province	ON
Postal Code	K1N 9J6

PROGRAM INFORMATION

Program Academic Level	Undergraduate		
Program Comprehensiveness	Full Program		
Program Delivery	Asynchronous Distance		
Program Attendance	Distance Only		
Program Typical Duration	2 Years		
Credential Awarded	Certificate	C	Certificate in Health Information Management
Type of Professional Produced by Program List Standard Types (e.g., AHI, RDHI, CHI, HIM,	Health Information Management		
Type of Role(s) Addressed by Program List Standard Specific Roles (e.g., CIO, Internal	Director, Health Information Management, Researcher, Data Analyst, Health Information Consultant, Privacy Officer, Coding Specialist, Decision Support Analyst, Supervisor, Coordinator, Lead		
Candidate Pre-requisites for Program	Candidates must provide a written commitment from an information management professional which secures them a placement at a Practical Experience site in a health care facility that provides a range of patient care services.		
Co-op Availability or Requirement	Requirement		
Program Cost	Year 1 Tuition: \$1,975.00 Year 2 Tuition: \$1,775.00	For more information on program costs, See: http://www.learning.cha.ca/educ/tuition.aspx	
Program Registration Due Date	May 31		
Program Website	http://www.learning.cha.ca/educ/health_info_management/health_info_mgmt.aspx		
Program Admissions Requirement Link	http://www.learning.cha.ca/educ/registration_info.aspx		
Program Application Link	http://www.learning.cha.ca/educ/Login.aspx		
Comments on Program	This program is accredited by the Canadian Health Information Management Association (CHIMA). Graduates are eligible to write the national certification exam administered by CHIMA. There is an articulation agreement with Athabasca University that awards graduates 36 credits towards a bacheloreate degree in Health Administration.		

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PROGRAM CURRICULUM

Program Curriculum Information Link http://www.learning.cha.ca/educ/health_info_management/health_info_mgmtY1_outline.aspx
http://www.learning.cha.ca/educ/health_info_management/health_info_mgmtY2_outline.aspx

Program Courses

Year One

The study units include the following topics:

Understanding health care delivery & HIM processes within health care delivery
 Anatomical structures
 Physiological processes
 Human disease
 Organization, classification and dissemination of data
 Arithmetic Review & Introductor to HIM-related Statistics

Year Two

The study units include the following topics:

Quality and risk management
 Legal aspects & Principles of Privacy, Confidentiality & Security
 CHIMA's Code of Ethics
 Utilization & Decision Support
 Research, epidemiology & biostatistics
 Accreditation
 Health informatics & the electronic health record
 Management principles

FACULTY ASSOCIATED WITH PROGRAM

	Last Name	First Name	Department	Faculty	Rank	Credentials	Research Expertise
Full-Time Dedicated to Program	Bailey	Marikay	Learning		Director	CHIM RHIT CCS	

COACH - Canada's Health Informatics Association

Program Name Health Informatics Training System

CONTACT INFORMATION

Provider Frontline Informatics Training Inc

Program Contact Name Glen Brannen, Frontline Informatics Training Inc

Telephone 905 338-3206

Email gbrannen@frontlineinformatics.ca

Street 2166 Margot Street

City Oakville

Province ON

Postal Code L6H 3M1

PROGRAM INFORMATION

Program Academic Level Undergraduate

Program Comprehensiveness Full Program

Program Delivery Asynchronous
Distance

Program Attendance Distance Only

Program Typical Duration 8 - 12 hours

Credential Awarded Certificate C Certificate in Health Informatics

Type of Professional Produced by Program Healthcare professionals interested in learning about healthcare technologies
List Standard Types (e.g., AHI, RDHI, CHI, HIM, ...)

Type of Role(s) Addressed by Program Preparation for upcoming systems implementation, information systems, decision support
List Standard Specific Roles (e.g., CIO, Internal ...)

Candidate Pre-requisites for Program None

Co-op Availability or Requirement No

Program Cost \$150.00

Program Registration Due Date Available throughout the year

Program Website <https://frontlineinformatics.sspowered.com/frontlineinformatics.ca/>

Program Admissions Requirement Link <http://www.coachorg.com/default.asp?ID=877>

Program Application Link <https://frontlineinformatics.sspowered.com/frontlineinformatics.ca/register.php>

Comments on Program Provided through a partnership between COACH and Frontline Informatics Training, this version of HITS has been modified for use in Canada and is endorsed by the Canadian Nurses Association (CNA) and NurseONE, a national, web-based health information service designed for the Canadian nursing community.

PROGRAM CURRICULUM

Program Curriculum Information Link https://frontlineinformatics.sslpowered.com/frontlineinformatics.ca/courses_hitscontent.html

Program Courses

UNIT 1: IT BASICS IN HEALTHCARE

Module 1: Computer Hardware and Software in Healthcare
Module 2: Networks and Health Informatics

UNIT 2: INFORMATION MANAGEMENT IN HEALTHCARE

Module 3: Understanding Data, Information and Knowledge
Module 4: Protecting Information - Security, Privacy and Confidentiality
Module 5: Electronic Record Keeping in Healthcare

UNIT 3: IT SYSTEMS IN HEALTHCARE

Module 6: Administrative Information Systems
Module 7: Clinical Information Systems
Module 8: Decision Support Systems

Conestoga College Institute of Technology and Advanced Learning

Program Name Applied Health Informatics

CONTACT INFORMATION

Department	Health & Life Science
Faculty	School of Health & Life Sciences and Community Services
Program Contact Name	Karen Daly
Telephone	519-748-5220, ex. 3966
Email	Kdaly@conestogac.on.ca
Street	299 Doon Valley Drive
City	Kitchener
Province	ON
Postal Code	N2G 4M4

PROGRAM INFORMATION

Program Academic Level	Graduate
Program Comprehensiveness	Full Program
Program Delivery	Onsite
Program Attendance	Onsite Only
Program Typical Duration	4 Semesters (3 Study, 1 Co-op)
Credential Awarded	Graduate Certificate GC Graduate Certificate in Applied Health Informatics
Type of Professional Produced by Program List Standard Types (e.g., AHI, RDHI, CHI, HIM, ...)	Entry Level Positions: System/Applications Expert, Process Analyst, Evaluator, Educator/Trainer, Programmer/Deployment Support, Policy Planner Later Roles: IT/IM Resources/Project Manager, Health IT Consultant, Clinical Informatician
Type of Role(s) Addressed by Program List Standard Specific Roles (e.g., CIO, Internal ...)	
Candidate Pre-requisites for Program	Health Sciences Diploma/Advanced Diploma and a B+ average (or 3.50 GPA) from their diploma program. OR Degree with B+ average. OR International graduates in health related disciplines.
Co-op Availability or Requirement	Requirement
Program Cost	\$9150.00 for the program
Program Registration Due Date	Spring/Summer
Program Website	http://www.conestogac.on.ca/fulltime/programoverview.jsp?SchoolID=3&ProgramCode=1223C&v=1001
Program Admissions Requirement Link	http://www.conestogac.on.ca/fulltime/programoverview.jsp?SchoolID=3&ProgramCode=1223C&v=1001
Program Application Link	http://www.conestogac.on.ca/fulltime/howtoapply.jsp?SchoolID=3&ProgramCode=1223c&v=1001
Comments on Program	The program is designed to prepare graduates with a previous degree or with a health sciences diploma/advanced diploma to work in the field of health informatics. The program will provide an in-depth knowledge of health informatics, an understanding of information technology, and development of excellent communication, decision making and problem solving skills.

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PROGRAM CURRICULUM

Program Curriculum Information Link <http://www.conestogac.on.ca/fulltime/programcourses.jsp?SchoolID=3&ProgramCode=1223c&v=1001>

Program Courses

ADMN 1220 Health Records
 COMM 1580 Foundations of Communications for Health Informatics
 HIM 1050 Health Informatics I
 HIM 2030 Health Informatics II
 INFO 1765 Foundations of Information Systems
 LIBS 7160 User Training and Adult Education
 COMM 2080 Professional Communication for Health Informatics
 HIM 2020 Governance and Structures of Health Care Systems in Canada
 HIM 4030 Health Care Quality Improvement
 INFO 1750 Clinical Systems
 INFO 2200 Systems Analysis and Re-Engineering
 CDEV 1020 Co-op and Career Preparation
 HIM 4050 Health Informatics III
 INFO 4030 Information Technology Procurement
 MGMT 1450 Project Management in Health Care – Techniques and Tools

FACULTY ASSOCIATED WITH PROGRAM

	Last Name	First Name	Department	Faculty	Rank	Credentials	Research Expertise
Full-Time Dedicated to Program	Daly	Karen	Health Informatics	School of Health Sciences	Professor	RN, MHSc	
	Kagolovsky	Yuri	Health Informatics	School of Health Sciences	Professor	MD, MSc	
	Madziak	Peter	Health Informatics	School of Health Sciences	Professor	MSc	
	Pantazi	Stefan	Health Informatics	School of Health Sciences	Professor	MD, PhD	
Full-Time but not Dedicated to Program	Guo	Daniel	Communications	School of Liberal and Media Study	Professor		
	Turton	David		School of Engineering and Information Technology	Professor		
	Brillinger	Kathryn	Communications	School of Liberal and Media Study	Professor	MEd	
	Tanuan	Meyer		School of Engineering and Information Technology	Professor		
	Tal	Oded	International Business Management	School of Business	Professor	PhD	

Conestoga College Institute of Technology and Advanced Learning

Program Name Health Informatics Management

CONTACT INFORMATION

Department	Health & Life Science
Faculty	School of Health & Life Sciences and Community Services
Program Contact Name	Karen Daly
Telephone	519-748-5220, ex. 3966
Email	Kdaly@conestogac.on.ca
Street	299 Doon Valley Drive
City	Kitchener
Province	ON
Postal Code	N2G 4M4

PROGRAM INFORMATION

Program Academic Level	Undergraduate
Program Comprehensiveness	Full Program
Program Delivery	Combined
Program Attendance	Combined
Program Typical Duration	4 Years
Credential Awarded	Bachelor's Degree BAHSc Bachelor of Applied Health Sciences

Type of Professional Produced by Program
List Standard Types (e.g., AHI, RDHI, CHI, HIM,

Type of Role(s) Addressed by Program
List Standard Specific Roles (e.g., CIO, Internal

Candidate Pre-requisites for Program

Business Analysts, Management

- 6 Grade 12 courses including: 4U courses & 2 U or U/M courses
- The following 4 U courses are required: Gr. 12 Compulsory English, Math, & 2/3 Sciences: Bio, Chem and/or Physics
- Minimum average of 75% • averages between 65% & 74% will be considered if applicant meets further criteria described on the website given below
- Basic computer literacy; English proficiency (test scores for English Language Proficiency exam may be required)
- Further details found at : <http://hi.conestogac.on.ca/node/program/admission#requirements>

Co-op Availability or Requirement	Requirement
Program Cost	\$6100 for two semesters
Program Registration Due Date	Spring/Summer
Program Website	http://www.conestogac.on.ca/fulltime/programoverview.jsp?SchoolID=3&ProgramCode=1131C&v=1001
Program Admissions Requirement Link	http://www.conestogac.on.ca/fulltime/programoverview.jsp?SchoolID=3&ProgramCode=1131C&v=1001
Program Application Link	http://www.conestogac.on.ca/fulltime/howtoapply.jsp?SchoolID=3&ProgramCode=1131c&v=1001
Comments on Program	Opened Fall 2005

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PROGRAM CURRICULUM

Program Curriculum Information Link

<http://www.conestogac.on.ca/fulltime/programcourses.jsp?SchoolID=3&ProgramCode=1131c&v=1001>

Program Courses

Level One:

ADMN 1220 Health Records
 COMM 1580 Foundations of Communications for Health Informatics
 FND 1040 Foundation Module
 HIM 1050 Health Informatics I
 INFO 1765 Foundations of Information Systems
 LIBS 7040 Science, Technology and Society
 LIBS 7150 Personal Awareness and Group Dynamics
 PROG 1880 Programming Concepts

Level Two:

CDEV 1020 Co-op and Career Preparation
 COMM 2080 Professional Communication for Health Informatics
 COMP 1038 Database Concepts
 HIM 1060 Health Informatics Field Studies
 HIM 1070 Anatomy and Physiology (Health Informatics)
 PROG 2300 Programming with Data Studies

Level Three:

COMM 2110 Advanced Communication for Health Informatics
 HIM 2030 Health Informatics II
 INFO 2190 Client Server Concepts
 LIBS 7180 Interpersonal Conflict Management Skills
 MATH 1750 Mathematics (Health Informatics)
 PROG 2050 Database Concepts II

Level Four:

ECON 2010 Health Care Finance/Public Sector Economics
 HIM 2020 Governance and Structures of Health Care Systems in Canada
 INFO 750 Clinical Systems
 INFO 2200 Systems Analysis and Re-Engineering
 PROG 3410 Database Concepts III: Database and Information Management in Health Informatics

Level Five:

COOP1450 Co-op Work Term 1 – HIM

Level Six:

BUS 3110 Business and Fiscal Management in Health Service
 INFO 3090 Building Web Applications
 INFO 3110 Principles of Systems Design
 LIBS 7160 User Training and Adult Education
 RSCH 2010 Research Methods/Statistics in Health Sciences

Level Seven:

COOP 2150 Co-op Work Term 2 – HIM

Level Eight:

BUS 3120 Management in Organizational Behaviour
 HIM 3030 Epidemiology, Population Health and Public Health
 INFO 3100 Network Management
 LIBS 7010 Ethical Issues in Health Care
 MGMT 1450 Project Management in Health Care – Techniques and Tools

Level Nine:

COOP 3150 Co-op Work Term 3 (HIM)

Level Ten:

HIM 4020 Decision Support in Health Care
 HIM 4030 Health Care Quality Improvement
 HRM 4020 Human Resource Management – Management in Public Administration
 HRM 4020 Human Resource Management – Management in Public Administration
 INFO 4000 Clinical Systems II
 INFO 4040 Systems Integration

Level Eleven:

HIM 4050 Health Informatics III
 HRM 4010 Change Management
 INFO 4020 Information Technology Management
 INFO 4030 Information Technology Procurement
 INFO 4050 Computer Systems Security

FACULTY ASSOCIATED WITH PROGRAM

	Last Name	First Name	Department	Faculty	Rank	Credentials	Research Expertise
Full-Time Dedicated to Program	Daly	Karen	Health Informatics	School of Health Sciences	Professor	RN, MHSc	
	Kagolovsky	Yuri	Health Informatics	School of Health Sciences	Professor	MD, MSc	
	Madziak	Peter	Health Informatics	School of Health Sciences	Professor	MSc	
	Pantazi	Stefan	Health Informatics	School of Health Sciences	Professor	MD, PhD	
Full-Time but not Dedicated to Program	Guo	Daniel	Communications	School of Liberal and Media Study	Professor		
	Turton	David		School of Engineering and Information Technology	Professor		
	Brillinger	Kathryn	Communications	School of Liberal and Media Study	Professor	MEd	
	Tanuan	Meyer		School of Engineering and Information Technology	Professor		
	Tal	Oded	International Business Management	School of Business	Professor	PhD	

Conestoga College Institute of Technology and Advanced Learning

Program Name Information Management for Health Care

CONTACT INFORMATION

Department	Health & Life Science
Faculty	School of Health & Life Sciences and Community Services
Program Contact Name	Karen Daly
Telephone	519-748-5220, ex. 3966
Email	Kdaly@conestogac.on.ca
Street	299 Doon Valley Drive
City	Kitchener
Province	ON
Postal Code	N2G 4M4

PROGRAM INFORMATION

Program Academic Level	Graduate
Program Comprehensiveness	Full Program
Program Delivery	Onsite
Program Attendance	Onsite Only
Program Typical Duration	3 Semesters (2 Study, 1 Co-op)
Credential Awarded	Graduate Certificate GC Graduate Certificate in Information Management for Health Care
Type of Professional Produced by Program List Standard Types (e.g., AHI, RDHI, CHI, HIM, hybrids, all)	Entry Level Positions: System/Applications Expert, Process Analyst, Evaluator, Educator/Trainer, Programmer/Deployment Support, Policy Planner Later Roles: IT/IM Resources/Project Manager, Health IT Consultant, Clinical Informatician
Type of Role(s) Addressed by Program List Standard Specific Roles (e.g., CIO, Internal Consultant, Teacher, Researcher, etc., all)	Entry Level Positions: System/Applications Expert, Process Analyst, Evaluator, Educator/Trainer, Programmer/Deployment Support, Policy Planner Later Roles: IT/IM Resources/Project Manager, Health IT Consultant, Clinical Informatician
Candidate Pre-requisites for Program	Three year college diploma or university degree from an accredited institution, in computer programming, information technology, computer science with a minimum B+ average (or 3.50 GPA) OR equivalent OR demonstrated currency in the field within the last 5 years.
Co-op Availability or Requirement	Requirement
Program Cost	\$6100 for two semesters
Program Registration Due Date	Spring/Summer
Program Website	http://www.conestogac.on.ca/fulltime/programoverview.jsp?SchoolID=3&ProgramCode=1217C&v=1001
Program Admissions Requirement Link	http://www.conestogac.on.ca/fulltime/programoverview.jsp?SchoolID=3&ProgramCode=1217C&v=1001
Program Application Link	http://www.conestogac.on.ca/fulltime/howtoapply.jsp?SchoolID=3&ProgramCode=1217c&v=1001
Comments on Program	This graduate certificate program in Information Management for Health Care is intended for information technology graduates who have successfully completed an advanced diploma or degree in information technology and who intend to further their learning in the field of health informatics. The program incorporates knowledge of clinical, administrative and financial processes in health care with applications of information technology in health care. The students will also acquire an understanding of privacy and confidentiality of patient data and information as well as acquire skills needed to develop sound training programs and materials.

SURVEY OF HEALTH INFORMATICS PROGRAMS IN CANADA

PROGRAM CURRICULUM

Program Curriculum Information Link <http://www.conestogac.on.ca/fulltime/programoverview.jsp?SchoolID=3&ProgramCode=1217C&v=1001>

Program Courses

Level One:

ADMN 1220 Health Records
 COMM 1580 Foundations of Communications for Health Informatics
 HIM 1050 Health Informatics I
 HIM 2030 Health Informatics II
 LIBS 7160 User Training and Adult Education

Level Two:

CDEV 1020 Co-op and Career Preparation
 COMM 2080 Professional Communication for Health Informatics
 ECON 2010 Health Care Finance/Public Sector Economics
 HIM 1070 Anatomy and Physiology (Health Informatics)
 HIM 2020 Governance and Structures of Health Care Systems in Canada
 INFO 1750 Clinical Systems

Level Three:

COOP 1450 Co-op Work Term 1 - HIM

FACULTY ASSOCIATED WITH PROGRAM

	Last Name	First Name	Department	Faculty	Rank	Credentials	Research Expertise
Full-Time Dedicated to Program	Daly	Karen	Health Informatics	School of Health Sciences	Professor	RN, MHSc	
	Kagolovsky	Yuri	Health Informatics	School of Health Sciences	Professor	MD, MSc	
	Madziak	Peter	Health Informatics	School of Health Sciences	Professor	MSc	
	Pantazi	Stefan	Health Informatics	School of Health Sciences	Professor	MD, PhD	
Full-Time but not Dedicated to Program	Guo	Daniel	Communications	School of Liberal and Media Study	Professor		
	Turton	David		School of Engineering and Information	Professor		
	Brillinger	Kathryn	Communications	School of Liberal and Media Study	Professor	MEd	
	Tanuan	Meyer		School of Engineering and Information Technology	Professor		
	Tal	Oded	International Business Management	School of Business	Professor	PhD	

Dalhousie University

Program Name **Informatics with Specialization of Your Own Design**

CONTACT INFORMATION

Department	N/A
Faculty	Computer Science
Program Contact Name	Angie Bolivar, Computer Science
Telephone	902-494-2740
Email	angie@cs.dal.ca
Street	6050 University Avenue
City	Halifax
Province	NS
Postal Code	B3H 1W5

PROGRAM INFORMATION

Program Academic Level	Undergraduate
Program Comprehensiveness	Full Program
Program Delivery	Onsite
Program Attendance	Onsite Only
Program Typical Duration	4 Years
Credential Awarded	Bachelor's Degree BINF Bachelor of Informatics
Type of Professional Produced by Program List Standard Types (e.g., AHI, RDHI, CHI, HIM,	Research and Development in Informatics, Information Technology Professional
Type of Role(s) Addressed by Program List Standard Specific Roles (e.g., CIO, Internal	IT Manager, Software/Program Designer, Project Manager, and other IT and IS roles
Candidate Pre-requisites for Program	<ul style="list-style-type: none"> ● Secondary School Admission Requirements: <ul style="list-style-type: none"> - A final grade of at least 70% in Grade 12 English - A final grade of at least 70% in Grade 12 Math (Academic, Advanced, Pre-Calculus or Calculus) - A final average of at least 70% in five academic subjects including English and Mathematics ● Post-Secondary Admissions Requirements (if currently in University): <ul style="list-style-type: none"> You can enter the normal second year of the program if you meet the following year 2 entry requirements or equivalent, and have a grade point average of at least 2.0: <ol style="list-style-type: none"> 1) CSCI 1100.03: Computer Science I; 2) STAT 1060.03: Introductory statistics; 3) CSCI 2112.03: Discrete Structures I; 4) 2 writing classes and demonstrable communication skill; 5) 1 elective class ● If past 1st year of University: <ul style="list-style-type: none"> - You'll get credit for courses that could be have been taken in the BInf program
Co-op Availability or Requirement	Requirement
Program Cost	2 Terms: \$6,800 - \$8,600
Program Registration Due Date	June
Program Website	http://informatics.dal.ca/index.html
Program Admissions Requirement Link	http://informatics.dal.ca/admission.html
Program Application Link	http://www.registrar.dal.ca/forms/
Comments on Program	The B.Inf. program is the first of its kind in Canada. Its learning environment is patterned after the future workplace: you work in teams to find new solutions that reflect the information needs of the real world—socially, culturally, in real organizations. Customize your degree to suit your interests by doubling with another health-related major or choose 14 courses from at least two disciplines other than Computer Science.

SURVEY OF HEALTH INFORMATICS PROGRAMS IN CANADA

PROGRAM CURRICULUM

Program Curriculum Information Link <http://informatics.dal.ca/courses.html>

Program Courses

Informatics Courses:

CSCI 2100.03: Communication Skills: Oral and Written
 CSCI 3160.03: User Interface Design
 CSCI 3172.03: Web-Centric Computing
 HAHP 3100.03: Introduction to Research Methods
 HINF 1200.03: Introduction to Health, Health Promotion and Health Professions.
 HINF 3201.03: Canadian Health Care Delivery System
 HINF 4200.03: Health Care Ethics
 INFX 1606.03: Intro to Web site creation
 INFX 1610 Integrated Informatics Studies
 INFX 1690.03: Project Management Theory and Practice
 INFX 2640.03: Introduction to Database Systems
 INFX 2670.03: Intro to Server Side Scripting
 INFX 2691.03: Integrated Studies 2
 INFX 3600.03: Integrated Studies 3
 INFX 3601.03: Integrated Studies 4
 INFX 3630.03: Software Engineering and Project Management
 INFX 3660.03: Web-Based User Interface Design
 INFX 3660.03: Web-Based User Interface Design
 INFX 3690.03: Research Methods
 INFX 4600.03: Integrated Studies 5
 INFX 4601.03: Integrated Studies 6

Possible Health-related courses available:

- HAHP 1000.03: Introduction to Health, Health Promotion and Health Professions
- HESA 4000.03: Canadian Healthcare System
- HINF 1100.03: Introduction to Health Informatics
- HINF 2100.03: Health Information Flow and Management
- HINF 2501.03: Clinical Processes and Decision Making 1
- HINF 2502.03: Clinical Processes and Decision Making 2
- HINF 3101.03: Health Data Standards and Terminologies
- HINF 3102.03: Medical Coding
- HINF 3500.03: Healthcare Decision Support Systems
- HINF 4100.03: Healthcare Enterprise Information Systems
- HINF 4102.03: Inquiry in Health Informatics
- HSCE 2000.03: Healthcare Ethics

FACULTY ASSOCIATED WITH PROGRAM

	Last Name	First Name	Department	Faculty	Rank	Credentials	Research Expertise
Full-Time Dedicated to Program	Scrimger	J. Norman		Computer Science		B.Sc., M.Sc, PhD	Image analysis, graphical database searching, computer graphics
	Flemming	James		Computer Science			

Dalhousie University

Program Name Health Informatics

CONTACT INFORMATION

Department	N/A	
Faculty	Computer Science	
Program Contact Name	Angie Bolivar, Computer Science	Raza Abidi
Telephone	902-494-2740	902-494-2129
Email	angie@cs.dal.ca	sraza@cs.dal.ca
Street	6050 University Avenue	
City	Halifax	
Province	NS	
Postal Code	B3H 1W5	

PROGRAM INFORMATION

Program Academic Level	Graduate	
Program Comprehensiveness	Full Program	
Program Delivery	Onsite	
Program Attendance	Onsite Only	
Program Typical Duration	16 months (4 terms)	
Credential Awarded	Master's Degree	MHI Master of Health Informatics
Type of Professional Produced by Program List Standard Types (e.g., AHI, RDHI, CHI, HIM, etc.)	Applied Health Informatics/Research & Development Health Informatics	
Type of Role(s) Addressed by Program List Standard Specific Roles (e.g., CIO, Internal Consultant, Systems Administrator, etc.)	All Health Informatics Roles	
Candidate Pre-requisites for Program	<ul style="list-style-type: none"> • Formal preparation: an undergraduate degree in a health profession or information technology area. This must include an introductory course in statistics. Also, one course in programming is strongly recommended. • Preference will be given to students with two years' experience in the field (information technology or health professions). Experience will be evaluated on a case by case basis, but should include some work with applying information technology to health issues. 	
Co-op Availability or Requirement	Internship Availability	
Program Cost	Annual Tuition Fee: \$8,042	
Program Registration Due Date	Two intakes: September & January	
Program Website	http://www.healthinformatics.dal.ca	
Program Admissions Requirement Link	http://www.healthinformatics.dal.ca/admission.php	
Program Application Link	http://www.registrar.dal.ca/forms/home.htm	
Comments on Program		

SURVEY OF HEALTH INFORMATICS PROGRAMS IN CANADA

PROGRAM CURRICULUM

Program Curriculum Information Link <http://www.healthinformatics.dal.ca/courses.php>

Program Courses

Term 1 - Fall

HINF 6000 - Introduction to Health Informatics
 HINF 6030 - Statistics for Health Informatics
 HINF 6101 - Health Information Flow and Use
 HINF 6110 - Health Information Systems and Issues

HINF 6120 - Fundamentals of Clinical Care for Non-Clinicians
 OR HINF 6220 - Networks and the Web for Health Informatics

Term 2 - Winter

HINF 6020 - Research Methods
 HINF 6102 - Health Information Flow and Standards
 HINF 6230 - Knowledge Management for Health Informatics
 HINF 6300 - Project Management for Health Information Projects

Term 3 - Fall

HINF 6210 - Data Mining for Health Informatics

HINF 9000 - Thesis PLUS 1 elective
 OR 3 electives

Term 4 - Winter

HINF 9000 - Thesis
 OR HINF 7000 - Internship

Note: Students take either a thesis or an Internship.

FACULTY ASSOCIATED WITH PROGRAM

	Last Name	First Name	Department	Faculty	Rank	Credentials	Research Expertise
Full-Time Dedicated to Program	Abidi	Raza	Health Informatics	Computer Science	Professor	B.Eng, M.S, Ph.D	Knowledge Management, Health Informatics, Intelligent information, Web Services Personalization
	Zitner	David	Medical Informatics	Medicine	Professor	MA, MD, FCFP	Measuring the effectiveness of health care, Relating health care activities to the results of care, Decision Support for clinical care, teaching, research, and administration
	Mensink	Naomi	Medical Informatics	Medicine	Lecturer	BA, MA	
	Paterson	Grace		Medicine	Assistant Professor	B.Sc, M.Sc, Ph.D	Health Informatics, Informatics Competencies and Curricula, Medical Education, Boundary Objects, Topic Maps, Health Infrastructure, Chronic Disease Management, Clinical Informatics, Health Level 7 (HL7), SNOMED CT, Unified Medical Language System (UMLS), Data Standards, Electronic Health Records, Health Indicators
Full-Time but not Dedicated to Program	Gao	Qigang		Computer Science	Professor	M.A.Sc, Ph.D	Pattern Analysis and Machine Intelligence, Data Mining and Data Warehouses
	Blouin	Christian	Biochemistry and Molecular Biology		Assistant Professor	B.Sc, Ph.D	Protein evolution and biophysics, algorithms, phylogenetics, high-performance computing, statistical mechanics, molecular modeling
	Heywood	Malcom		Computer Science		B.Eng, Ph.D	Genetic Programming, Network Information Management and Security Group, Modelling and Mining of Network Information Systems
	Keselj	Vlado		Computer Science		Bmath, Mmath, PhD	
	Milios	Evangelos		Computer Science	Professor	Dipl Eng, SM & EE, PhD	Modelling and Mining of Networked Information Spaces, Text Mining, Graph Mining, Social Network Analysis
	Shepherd	Michael		Computer Science	Professor	MSc, Ph.D	Information Retrieval, Hypertext, Web Information Systems, Electronic News Delivery, Information Filtering, Genre in Digital Documents
	Watters	Carolyn		Computer Science	Professor	M.Sc, MLS, Ph.D	Hypertext, information retrieval, electronic news, technology and learning, hypertext design and modelling
	Cameron	Stewart		Medicine	Associate Professor	MD, FCFP	
	Cox	Jafna		Medicine		MD, FRCPC, FACC	
	Dunbar	Michael		Medicine	Assistant Professor	B.Sc, MD, Ph.D, FRCSC	
	Graven	Michael		Medicine			
	Fay	Donald		Medicine		MD, CFPC	
	Rockwood	Kenneth		Medicine	Professor	BA, MPA, BMSc, MD, Alzheimer, Dementia, Delerium FRCPC	
	Graham	Janice	Bioethics	Medicine	Professor	MA, PhD	Anthropology of science, technology and medicine, Regulation of pharmaceuticals, biologics and genetic therapies, Qualitative research
	Hurley	Katrina		Medicine	Assistant Professor	B.Sc, MHI, MD, FRCPC	Medical Informatics, Emergency Medicine
	Peltekian	Kevork		Medicine		MD, FRCPC	
Taylor	Brett		Medicine	Associate Professor	MHI, MD, FRCPC		
Weerasinghe	Swarna		Medicine	Associate Professor	MSc, PhD	Social and Physical Environment of Health	
Maellea	Laird		Management		BA, MBA, PhD		

Dalhousie University

Program Name Health Informatics

CONTACT INFORMATION

Department	N/A
Faculty	Computer Science
Program Contact Name	Raza Abidi
Telephone	902-494-2129
Email	sraza@cs.dal.ca
Street	6050 University Avenue
City	Halifax
Province	NS
Postal Code	B3H 1W5

PROGRAM INFORMATION

Program Academic Level	Graduate
Program Comprehensiveness	Full Program
Program Delivery	Onsite
Program Attendance	Onsite Only
Program Typical Duration	4 Years
Credential Awarded	Doctorate PhD Doctorate of Philosophy in Health Informatics
Type of Professional Produced by Program List Standard Types (e.g., AHI, RDHI, CHI, HIM, ...)	Applied Health Informatics/Research & Development Health Informatics
Type of Role(s) Addressed by Program List Standard Specific Roles (e.g., CIO, Internal ...)	All Health Informatics Roles
Candidate Pre-requisites for Program	<ul style="list-style-type: none"> •Bachelor's and Master's Degree •The minimum acceptable GPA is 3.70 or above.
Co-op Availability or Requirement	No
Program Cost	Approx. Yearly Tuition: \$8000
Program Registration Due Date	September 15 HI Executive submission for October 15 FGS submission December 15 HI Executive submission for January 15 FGS submission February 15 HI Executive submission for March 15 FGS submission
Program Website	http://www.healthinformatics.dal.ca/phd.php
Program Admissions Requirement Link	http://idphd.grad.dal.ca/Prospective_Students/Admissions/
Program Application Link	http://idphd.grad.dal.ca/Prospective_Students/Admissions/Application%20Form/
Comments on Program	<p>If an applicant has some connection to a Dalhousie supervisor who will agree to supervise his/her Health Informatics research the applicant can apply directly to the IDPhD with a focus on health informatics. In this instance, the applicant and supervisor should contact Dr. Raza Abidi.</p> <p>If the applicant does not have a supervisor, he/she can apply to the Master of Health Informatics program. During the first 8 months of the MHI program the applicant can search for a supervisor and work with the supervisor to prepare an application for the IDPhD program. If admitted to the IDPhD program at that time, the student will not receive the MHI degree but the courses completed may be counted towards the IDPhD program.</p>

SURVEY OF HEALTH INFORMATICS PROGRAMS IN CANADA

PROGRAM CURRICULUM

Program Curriculum Information Link http://idphd.grad.dal.ca/Prospective_Students/Program_Overview/

Program Courses

FACULTY ASSOCIATED WITH PROGRAM

	Last Name	First Name	Department	Faculty	Rank	Credentials	Research Expertise
Full-Time Dedicated to Program	Abidi	Raza	Health Informatics	Computer Science	Professor	B.Eng, M.S, Ph.D	Knowledge Management, Health Informatics, Intelligent information, Web Services Personalization
	Zitner	David	Medical Informatics	Medicine	Professor	MA, MD, FCFP	Measuring the effectiveness of health care, Relating health care activities to the results of care, Decision Support for clinical care, teaching, research, and administration
	Mensink	Naomi	Medical Informatics	Medicine	Lecturer	BA, MA	
	Paterson	Grace		Medicine	Assistant Professor	B.Sc, M.Sc, Ph.D	Health Informatics, Informatics Competencies and Curricula, Medical Education, Boundary Objects, Topic Maps, Health Infostructure, Chronic Disease Management, Clinical Informatics, Health Level 7 (HL7), SNOMED CT, Unified Medical Language System (UMLS), Data Standards, Electronic Health Records, Health Indicators
Full-Time but not Dedicated to Program	Gao	Qigang		Computer Science	Professor	M.A.Sc, Ph.D	Pattern Analysis and Machine Intelligence, Data Mining and Data Warehouses
	Blouin	Christian	Biochemistry and Molecular Biology		Assistant Professor	B.Sc, Ph.D	Protein evolution and biophysics, algorithms, phylogenetics, high-performance computing, statistical mechanics, molecular modeling
	Heywood	Malcom		Computer Science		B.Eng, Ph.D	Genetic Programming, Network Information Management and Security Group, Modelling and Mining of Network Information Systems
	Keselj	Vlado		Computer Science		Bmath, Mmath, PhD	
	Milios	Evangelos		Computer Science	Professor	Dipl Eng, SM & EE, PhD	Modelling and Mining of Networked Information Spaces, Text Mining, Graph Mining, Social Network Analysis
	Shepherd	Michael		Computer Science	Professor	MSc, Ph.D	Information Retrieval, Hypertext, Web Information Systems, Electronic News Delivery, Information Filtering, Genre in Digital Documents
	Watters	Carolyn		Computer Science	Professor	M.Sc, MLS, Ph.D	Hypertext, information retrieval, electronic news, technology and learning, hypertext design and modelling
	Cameron	Stewart		Medicine	Associate Professor	MD, FCFP	
	Cox	Jafna		Medicine		MD, FRCPC, FACC	
	Dunbar	Michael		Medicine	Assistant Professor	B.Sc, MD, Ph.D, FRCSC	
	Graven	Michael		Medicine			
	Fay	Donald		Medicine		MD, CFPC	
	Rockwood	Kenneth		Medicine	Professor	BA, MPA, BMSc, MD, Alzheimer, Dementia, Deterium FRCPC	
	Graham	Janice	Bioethics	Medicine	Professor	MA, PhD	Anthropology of science, technology and medicine, Regulation of pharmaceuticals, biologics and genetic therapies, Qualitative research
	Hurley	Katrina		Medicine	Assistant Professor	B.Sc, MHI, MD, FRCPC	Medical Informatics, Emergency Medicine
	Peltekian	Kevork		Medicine		MD, FRCPC	
	Taylor	Brett		Medicine	Associate Professor	MHI, MD, FRCPC	
Weerasinghe	Swarna		Medicine	Associate Professor	MSc, PhD	Social and Physical Environment of Health	
Maeliea	Laird		Management		BA, MBA, PhD		

Douglas College

Program Name Health Information Management

CONTACT INFORMATION

Department	N/A
Faculty	Health Sciences
Program Contact Name	Laurie Kenward
Telephone	604-777-6422
Email	kenwardl@douglas.bc.ca
Street	Mailing: Box 2503, New Westminster BC V3L 5B2 / Street: David Lam Campus, 1250 Pinetree Way, Coquitlam, BC
City	New Westminster
Province	BC
Postal Code	V3L 5B2

PROGRAM INFORMATION

Program Academic Level	Undergraduate
Program Comprehensiveness	Full Program
Program Delivery	Onsite
Program Attendance	Onsite Only
Program Typical Duration	2 Year; (can be taken part-time)
Credential Awarded	Diploma D Diploma in Health Information Management
Type of Professional Produced by Program List Standard Types (e.g., AHI, RDHI, CHI, HIM,	Health Information Management professional
Type of Role(s) Addressed by Program List Standard Specific Roles (e.g., CIO, Internal Candidate Pre-requisites for Program	Health Information Practitioner, Health Information Manager, Researcher, Data Analyst, Coder • Gr. 12 graduation or equivalent with a min. "C" average, including 1 Science of Gr. 11 or 12, Principles of Math 11 (must be current within last 4 years with a "C" average), and English 12 (must be current within last 4 years with a "B" average) or equivalent
Co-op Availability or Requirement	Requirement
Program Cost	Overall Tuition: \$6721.95
Program Registration Due Date	May; Intake in even-numbered years
Program Website	http://www.douglascollege.ca/programs/health-information-management.html
Program Admissions Requirement Link	http://www.douglascollege.ca/calendar/programs/phisp.html
Program Application Link	https://banserv2.douglas.bc.ca/prod/bwskalog.P_DisplLoginNon

SURVEY OF HEALTH INFORMATICS PROGRAMS IN CANADA

PROGRAM CURRICULUM

Program Curriculum Information Link <http://www.douglas.bc.ca/calhtm/courses/chisp.htm>

Program Courses

- HIMP 1120 Health Information Management I (4 credits)
- HIMP 1170 Introduction to Health Data Classification (3.5 credits)
- HIMP 1220 Health Information Management II (3 credits)
- HIMP 1270 Health Data Collection and Classification II (6 credits)
- HIMP 1275 Health Data Collection and Classification Extramural (1.5 credits)
- HIMP 2320 Health Information Management III (3 credits)
- HIMP 2330 Health Information Reporting (3 credits)
- HIMP 2370 Health Data Collection and Classification III (6 credits)
- HIMP 2420 Health Information Management IV (2 credits)
- HIMP 2430 Health Data Collection and Classification IV (2.5 credits)
- HIMP 2575 Health Data Collection and Classification Extramural (1.5 credits)
- HIMP 2520 Senior Practicum (4.5 credits)

Comments on Program

- Only program in British Columbia that prepares students for this unique career
- Recognized by CHIMA, the Canadian Health Information Management Association, Graduates are eligible to write the national certification exam administered by CHIMA..

FACULTY ASSOCIATED WITH PROGRAM

	Last Name	First Name	Department	Faculty	Rank	Credentials	Research Expertise
Full-Time Dedicated to Program	Kenward	Laurie	Health Information Management	Health Sciences	Lecturer	BHRS, CHIM	N/A
	Adorjan-Byrne	Claire	Health Information Management	Health Sciences	Lecturer	Dip (Halifax Infirmary), CHIM	N/A

Fleming College

Program Name Health Information Management

CONTACT INFORMATION

Department	N/A
Faculty	School of Education, Health & Wellness
Program Contact Name	Paula Weisflock
Telephone	705-749-5530, ex.1718
Email	pweisflo@flemingc.on.ca
Street	Sutherland Campus, 599 Brealey Dr.
City	Peterborough
Province	ON
Postal Code	K9J 7B1

PROGRAM INFORMATION

Program Academic Level	Undergraduate
Program Comprehensiveness	Full Program
Program Delivery	Onsite
Program Attendance	Onsite Only
Program Typical Duration	2 Years
Credential Awarded	Diploma D Diploma in Health Information Management
Type of Professional Produced by Program List Standard Types (e.g., AHI, RDHI, CHI, HIM,	Health Information Management, Applied Health Information
Type of Role(s) Addressed by Program List Standard Specific Roles (e.g., CIO, Internal	Health Record/Information Technician, Coding Specialist, Health Record/Information Management Administrator, Data Analyst, Data Quality Specialist, Electronic Health Record Privacy Officer and Project Coordinator
Candidate Pre-requisites for Program	<ul style="list-style-type: none"> • OSSD, with the majority of credits at the College or Open level, including: • 2 English credits in the College stream; • 2 Science credits in the College or University/College stream; • 1 Math credits in the College or University/College stream • Mature Students will also be considered All applicants will be required to achieve course credit in the mandatory sciences, through Secondary School or Upgrading program
Co-op Availability or Requirement	Requirement
Program Cost	\$1,700.25 per semester
Program Registration Due Date	Applications received after February 1 are processed on a first-come, first-served basis (until programs are full).
Program Website	http://flemingcollege.com/Full-time/ProgramDisplay.cfm?ProgramCode=HIM
Program Admissions Requirement Link	http://flemingcollege.com/Full-time/ProgramDisplay.cfm?ProgramCode=HIM
Program Application Link	http://flemingcollege.com/index.cfm/go/service/sub/admissions/style/d.cfm

SURVEY OF HEALTH INFORMATICS PROGRAMS IN CANADA

PROGRAM CURRICULUM

Program Curriculum Information Link <http://flemingcollege.com/Full-time/ProgramDisplay.cfm?ProgramCode=HIM>

Program Courses

Anatomy and Physiology I	Coding and Classification Systems II
Business Teams	Communicating at Work for the Helping Professions
Clinical Pathology for HIM I	Database Management
Computer Skills and Applications	Health Law
Introduction to Health Information Management	Health Statistics
Medical Terminology I	Management of Health Information Services
Professionalism in Health Care	General Education Elective
Anatomy and Physiology II	Applied Research and Epidemiology
Clinical Pathology for HIM II	Coding and Classification Systems III
Coding and Classification Systems I	Comprehensive
Health Data Management and Use	Health Information Management Foundations to Practicum
Health Information Management Applications	Health Information Management Practicum II
Health Information Management Practicum I	Issues in Diversity
Medical Terminology II	Utilization Management and Decision Support
General Education Elective	

Comments on Program

Certified graduates eligible to apply to Ryerson HIM degree completion program

This program is recognized by the Canadian Health Information Management Association (CHIMA). Graduates are eligible to write the national certification exam administered by CHIMA.

Have articulation agreements with Ryerson, UOIT, and Athabasca Universities.

FACULTY ASSOCIATED WITH PROGRAM

	Last Name	First Name	Department	Faculty	Rank	Credentials	Research Expertise
Full-Time Dedicated to Program	Weisflock	Paula	Health Information Management	School of Education, Health & Wellness	Professor	BHA (HIM.), MAEd. (c), CHIM	Capstone projects for both undergrad and graduate programs
	Elias	Linda	Health Information Management	School of Education, Health & Wellness	Professor		

George Brown College

Program Name Health Information Management

CONTACT INFORMATION

Department	School of Health Services Management
Faculty	Health Sciences
Program Contact Name	Heather Donovan
Telephone	416-415-5000 ext. 2134
Email	hdonovan@georgebrown.ca
Street	160 Kendal Ave, Room C430
City	Toronto
Province	ON
Postal Code	M5R 1M3

PROGRAM INFORMATION

Program Academic Level	Undergraduate
Program Comprehensiveness	Full Program
Program Delivery	Onsite
Program Attendance	Onsite Only
Program Typical Duration	2 Years
Credential Awarded	Bachelor's Degree D Diploma in Health Information Management
Type of Professional Produced by Program List Standard Types (e.g., AHI, RDHI, CHI, HIM,	Health Information Coder, Decision Support Analyst, Patient Information Coordinator
Type of Role(s) Addressed by Program List Standard Specific Roles (e.g., CIO, Internal	Health Information Management Practitioner, Health Record Consultant, Researcher...
Candidate Pre-requisites for Program	<ul style="list-style-type: none"> • Ontario Secondary School Diploma or Equivalent • Gr.12 English (C or U); Gr.11 Math (U or U/C) or Gr.12 Math (C or U); • Gr. 11 Biology (C or U) or Gr. 12 Biology (C or U); • Gr.11 Physics (U) or Gr.12 Physics (C or U) OR Gr. 11 Chemistry (U) or Gr.12
Co-op Availability or Requirement	Requirement
Program Cost	Total of tuition, materials, student service and auxiliary fees for the first two semesters: \$2929
Program Registration Due Date	Before February
Program Website	http://www.gbrownc.on.ca/Marketing/FTCal/hsci/C139.aspx
Program Admissions Requirement Link	http://www.gbrownc.on.ca/Marketing/FTCal/hsci/C139.aspx
Program Application Link	http://www.gbrownc.on.ca/Marketing/FTCal/admiss.aspx
Comments on Program	<p>Certified graduates eligible to apply to Ryerson HIM degree completion program.</p> <p>This program is recognized by the Canadian Health Information Management Association (CHIMA). Graduates are eligible to write the national certification exam administered by CHIMA.</p>

PROGRAM CURRICULUM

Program Curriculum Information Link <http://www.gbrownc.on.ca/Marketing/FTCal/hsci/C139.aspx>

Program Courses

SEMESTER 1

GSCI1106 Anatomy and Physiology
 PATH1001 Pathophysiology and Microbiology
 RECM1001 Health Information Management Theory I
 RECM1005 Medical Terminology I
 LAW2008 Health-care Law
 MATH1112 Fundamental Math for Health Information Management
 COMM1007 College English
 COMP1082 Computer Skills and Applications

SEMESTER 2

GSCI1113 Anatomy and Physiology/Genetics
 PATH1005 Pathophysiology
 RECM2002 Health Information Management Theory II
 RECM1011 Medical Terminology II
 RECM1018 Health Information Lab I
 STAT1013 Quantitative Methods and Hospital Statistics
 COMP1007 Spreadsheet Applications

SEMESTER 3

RECM2007 Health Data Management
 RECM1003 Health Information Management Theory III
 RECM2010 Health Information Lab II
 STAT2002 Biostatistics
 RECM2014 Health Information Systems I
 COMP1087 Database Management
 GNED General Education Elective

SEMESTER 4

PROP2003 Clinical Extension/Health Information Lab
 RECM2004 Health Information Management Theory IV
 RECM2010 Health Information Lab II
 STAT2001 Research Design and Methodology
 RECM2009 Decision Support
 RECM2015 Health Information Systems II
 EPID2001 Epidemiology
 GNED General Education Elective

George Brown College

Program Name Health Informatics

CONTACT INFORMATION

Department	School of Health Services Management
Faculty	Health Sciences
Program Contact Name	Jennifer Barbier
Telephone	416-415-5000, ext. 4598
Email	jbarbier@georgebrown.ca
Street	160 Kendal Ave, Room C430
City	Toronto
Province	ON
Postal Code	M5R 1M3

PROGRAM INFORMATION

Program Academic Level	Graduate
Program Comprehensiveness	Full Program
Program Delivery	Combined
Program Attendance	Combined
Program Typical Duration	1 year (3 semesters)
Credential Awarded	Graduate Certificate GC Graduate Certificate in Health Informatics
Type of Professional Produced by Program List Standard Types (e.g., AHI, RDHI, CHI, HIM,	Applied Health Information
Type of Role(s) Addressed by Program List Standard Specific Roles (e.g., CIO, Internal	Prepare graduate to participate in the collection and organization of health information. Design, develop and maintain IT systems
Candidate Pre-requisites for Program	<ul style="list-style-type: none"> • Education: Two year college diploma in Health Sciences or equivalent OR 3 year college diploma in information technologies or equivalent. • Work experience (resume required): 2 years work experience as a health care professional or an IT professional, or equivalent; • Candidates will be accepted into the program based on the combination of relevant education and work experience, to ensure an appropriate mix/balance of health-care and technology backgrounds.
Co-op Availability or Requirement	Requirement
Program Cost	Total of tuition, materials, student service and auxiliary fees for the three semesters: \$8034
Program Registration Due Date	February
Program Website	http://www.gbrownc.on.ca/Marketing/FTCal/caet/T402.html
Program Admissions Requirement Link	http://www.gbrownc.on.ca/Marketing/FTCal/caet/01_AdvancedEng.pdf
Program Application Link	http://www.gbrownc.on.ca/Marketing/FTCal/admiss.html
Comments on Program	Started in September 2005.

PROGRAM CURRICULUM

Program Curriculum Information Link <http://www.gbrownc.on.ca/Marketing/FTCal/caet/T402.html>

Program Courses

SEMESTER 1

COMP4011 - Career Preparation
COMP4012 - Business Communication
COMP4013 - Qualitative Research
COMP4014 - The Canadian Health-Care System
COMP4015 - Health-Care Information Technology
COMP1180 - Portfolio I
HLTH1101 - Leadership and Change Management
COMP4016 - Quantitative Research

SEMESTER 2

COMP4021 - Project Management and Implementation
COMP4022 - The Cutting Edge of Health Informatics Technology
COMP4023 - Strategic Planning
COMP4024 - Health Data Standards (online)
COMP4025 - Privacy and Confidentiality (online)

SEMESTER 3

COMP4031 - Online Educational Strategies
COMP4032 - Health Informatics Impact on Clinical Practice
COMP4033 - Health Informatics System Analysis and Evaluation
COMP4034 - Portfolio II
HLTH1105 - Applied Practicum

McGill University

Program Name **Epidemiology and Biostatistics**

CONTACT INFORMATION

Department	Epidemiology, Biostatistics and Occupational Health
Faculty	Medicine
Program Contact Name	Dr. Robyn Tamblyn
Telephone	514-934-1934 x 32997
Email	robyn.tamblyn@mcgill.ca
Street	Purvis Hall, 1020 Pine Avenue West
City	Montreal
Province	QU
Postal Code	H3A 1A2

PROGRAM INFORMATION

Program Academic Level	Graduate
Program Comprehensiveness	Specialization
Program Delivery	Onsite
Program Attendance	Onsite Only
Program Typical Duration	Master's: 2-3 years PhD - 4-5 years
Credential Awarded	Master's Degree & Doctorate MSc PhD Master of Science Doctorate of Philosophy in Science

Type of Professional Produced by Program
List Standard Types (e.g., AHI, RDHI, CHI, HIM,

Type of Role(s) Addressed by Program
List Standard Specific Roles (e.g., CIO, Internal

Candidate Pre-requisites for Program

- Epidemiology Stream applicants for the Diploma and M.Sc. degree must hold a Bachelor's degree in a suitably related area. It is highly recommended that students have a good knowledge of differential and integral calculus at the level of a first year undergraduate course.
- Biostatistics Stream applicants must have at least three courses in calculus, two courses in linear algebra, and two courses in probability and statistics, all at the undergraduate level
- Candidates for a Ph.D. must hold a Master's degree in epidemiology and biostatistics or its equivalent
- CGPA (3.2/4.0 over the last two years of study)
- Test of English as a Foreign Language (TOEFL) minimum score 600 (see below for more details)
- A21Graduate Record Examination (GRE, general test) required by all applicants (see below for more details)

Co-op Availability or Requirement No

Program Cost

Program Registration Due Date February

Program Website <http://www.mcgill.ca/epi-biostat/>

Program Admissions Requirement Link <http://www.mcgill.ca/epi-biostat-occh/grad/epidemiology/applying/#AdmReq>
Epidemiology

Program Admissions Requirement Link <http://www.mcgill.ca/epi-biostat-occh/grad/biostatistics/applying/#AdmReq>
Biostatistics

Program Application Link <http://www.mcgill.ca/epi-biostat-occh/grad/epidemiology/applying/#App>
Epidemiology

Program Application Link <http://www.mcgill.ca/epi-biostat-occh/grad/biostatistics/applying/#App>
Biostatistics

Comments on Program

PROGRAM CURRICULUM

Program Curriculum Information Link: <http://www.mcgill.ca/epi-biostat-occh/grad/biostatistics/requirements/>
Epidemiology

Program Curriculum Information Link: <http://www.mcgill.ca/epi-biostat-occh/grad/epidemiology/requirements/>
Biostatistics

Epidemiology

Master's Courses:

EPIB 601 Fundamentals of Epidemiology 1
EPIB 602 Fundamentals of Epidemiology 2
EPIB 603 Intermediate Epidemiology
EPIB 605 Practicum
EPIB 607 Inferential Statistics
EPIB 613 Introduction to Statistical Software
EPIB 621 Introduction to Statistical Software
EPIB 634 Data Analysis Computer Lab
EPIB 630 Research Project in Epidemiology
or
EPIB 690 M.Sc. Thesis

PhD Courses:

Preparatory Year
EPIB 601 Fundamentals of Epidemiology 1
EPIB 602 Fundamentals of Epidemiology 2
EPIB 603 Intermediate Epidemiology
EPIB 605 Practicum
EPIB 607 Inferential Statistics
EPIB 613 Introduction to Statistical Software
EPIB 621 Data Analysis in Health Sciences
EPIB 634 Data Analysis Computer Lab

Core Year

EPIB 608 Advanced Epidemiology
EPIB 609 Seminar in Advanced Methods
EPIB 610 Advanced Methods: Causal Inference
EPIB 622 Scientific Communication
EPIB 623 Research Design in Health Sciences
EPIB 701 Ph.D. Comprehensive Examination
EPIB 702 Ph.D. Protocol Defense

Biostatistics

Master's Courses:

Required Courses:
BIOS 601 Epidemiology: Introduction & Statistical Models
BIOS 602 Epidemiology: Regression Models
MATH 523 Generalized Linear Models
MATH 533 Analysis of Variance and Regression
MATH 556 Mathematical Statistics 1
MATH 557 Mathematical Statistics 2

Thesis/Project Component:

BIOS 690 M.Sc. Thesis
BIOS 630 Research Project/Practicum in Biostatistics

PhD Courses:

BIOS 601 Epidemiology: Introduction & Statistical Models
BIOS 602 Epidemiology: Regression Models
BIOS 624 Data Analysis & Report Writing
MATH 523 Generalized Linear Models
MATH 533 Analysis of Variance and Regression
MATH 556 Mathematical Statistics 1
MATH 557 Mathematical Statistics 2
BIOS 700 Ph.D. Comprehensive Examination Part A*
BIOS 701 Ph.D. Comprehensive Examination Part B**
BIOS 702 Ph.D. Proposal***

McMaster University

Program Name eHealth

CONTACT INFORMATION

Department	N/A
Faculty	Health Sciences/Engineering (Computing and Software)/DeGroot School of Business
Program Contact Name	M.Sc. eHealth Program Coordinator
Telephone	905-525-9140 Ext. 23950
Email	ehealth@mcmaster.ca
Street	DSB A203, DeGroot School of Business 1280 Main St. West
City	Hamilton
Province	ON
Postal Code	L8S 4M4

PROGRAM INFORMATION

Program Academic Level	Graduate
Program Comprehensiveness	Full Program
Program Delivery	Onsite and/or Distance
Program Attendance	Onsite and/or Distance
Program Typical Duration	2 Years - FT study; 3-5 years PT study
Credential Awarded	Master's Degree MSc Master of Science
Type of Professional Produced by Program List Standard Types (e.g., AHI, RDHI, CHI, HIM, Type of Role(s) Addressed by Program List Standard Specific Roles (e.g., CIO, Internal Candidate Pre-requisites for Program	Health Information-Trained Clinicians, IT Professionals, Health Information Management Professionals, Health Science Librarians, and others Professional A bachelor's degree with an average in the final year of at least B+ (equivalent to a McMaster GPA of 8.5) in one of the relevant fields (computing and software, business, or health sciences), that includes a substantial computing applications background.
Co-op Availability or Requirement	Requirement
Program Cost	First Year Tuition: \$6,009.00 More program cost information at: Years After First: \$5,787.00 http://www.mcmaster.ca/bms/student/pdf/fees_grad.pdf
Program Registration Due Date	May
Program Website	http://mscehealth.mcmaster.ca/index.html
Program Admissions Requirement Link	
Program Application Link	http://mscehealth.mcmaster.ca/Apply.html
Comments on Program	Program Options are: Full time thesis; Full time course-project; Part time course-project.

PROGRAM CURRICULUM

Program Curriculum Information Link	http://mscehealth.mcmaster.ca/program.html
Required Courses: CAS 757 Modern Software Technology for eHealth BUS K736 Management Issues in eHealth HRM 724 Fundamentals of eHealth and the Canadian Health Care System	Health Research Methodology Courses: HRM *700 – Philosophy of Science for Health Research HRM *702 – Introduction to Biostatistics HRM *705 – Independent Study in Clinical Epidemiology HRM *711 – Health Economics & Evaluation HRM *713 – Health Quality Improvement HRM *714 – Methods for the Analysis of Longitudinal Data HRM *721 – Fundamentals of Health Research & Evaluation Methods HRM *722 – Selected Topics in Clinical Epidemiology HRM *723 – Regression Analysis HRM *724 – eHealth: Fundamentals of eHealth and the Canadian Health Care System HRM *725 – Knowledge Exchange & Translation (KET) HRM *727 – Theory & Practice of Measurement HRM *728 – Genetic Epidemiology & Statistics HRM *729 – The Canadian Health Care System in Comparative Perspective HRM *730 – Introduction to Research Methods for Randomized Controlled Trials HRM *731 – Advanced Linear Models for Health Data HRM *733 – Statistical and Methodological Issues in Randomized Clinical Trials HRM *735/736 – Environment and Health – Theory and Policy HRM *737 – Economic Analysis for the Evaluation of Health Services HRM *738 – Health Policy Analysis HRM *739 - Biostatistical Collaboration HRM *740 – Advanced Decision Analysis in Health Technology Assessment HRM *741 – Introduction to Health Technology Assessment HRM *742 – Research Ethics HRM *743 – Systematic Review Methods HRM/RS/NUR 745 – Qualitative Research Methods HRM *748 – Population and Public Health HRM *750 – Practical Bayesian Design and Analysis in Clinical Studies HRM *751 – Observational and Analytical Research Methods HRM/RS/NUR 758 – Qualitative Research Methods for Analysing and Interpreting Data HRM *759 – Survival Analysis HRM *762 – Approaches to the Evaluation of Health Services HRM/NUR *770 – Mixed Methods Research Designs for Health Services and Policy Research HRM *771 – Fundamentals of Health Research & Evaluation Methods (Online) HRM *772 – Introduction to Research Methods for Randomized Controlled Trials (Online) HRM *773 – Systematic Review Methods (Online) HRM *787 – Principles of Health Economics HRM *788 – Health Economics HRM *790/ ECON/GEORG/PSYC 770 – Advanced Analysis of Survey Data HRM *791 – Topics in Advanced Health Economics
Elective Courses: DeGroot School of Business Courses BUS C711 Health Economics and Evaluation BUS C721 Health Policy Analysis BUS C722 Management of Population Health BUS K723 Data Mining and Business Intelligence BUS K724 eBusiness Strategies (TBA) BUS K725 Business Process Reengineering (SAP) BUS K731 Project Management BUS O734 Supply Chain Management BUS K791 Knowledge Management & Information Systems BUS K792 Security, Privacy, & Trust in eBusiness BUS P727 Strategic Knowledge Management Faculty of Engineering (Computing and Software Department) Computing and Software elective courses COMP SCI 6CC3 Advanced Operating Systems COMP SCI 6EB3 Database Management System Design COMP SCI 6MG3 Computer System Architecture SPWR ENG 6D03 Design of Human-Computer Interfaces COMP SCI 6CD3 Distributed Systems Architecture COM SFWR 703 Software Design COM SFWR 704 Embedded Real Time Software Systems COM SFWR 730 Machine Learning & Related Topics CAS 750 Regularized Image Reconstruction (MRI focus)	

SURVEY OF HEALTH INFORMATICS PROGRAMS IN CANADA

FACULTY ASSOCIATED WITH PROGRAM

	Last Name	First Name	Department	Faculty	Rank	Credentials	Research Expertise
Full-Time Dedicated to Program	Bontis	Nick	Strategic Market Leadership and Health Service Management	Business	Associate Professor	HBA, Ph.D	Intellectual capital, knowledge management and organizational learning
	Deal	Ken	Strategic Market Leadership and Health Service Management	Business	Associate Professor	BS, MBA, Ph.D	Marketing Research, Advertising research, Marketing Modeling
	Hassanein	Khaled	Information Systems	Business	Associate Professor	B.Sc,M.A.,S, MBA, PhD	e-Business and mobile commerce, including online trust, online usability, wireless device usability, online privacy, and e-Health
	Hassini	Elkafi	Operations Management	Business	Associate Professor	B.Sc, M.Sc, Ph.D	e-retailing supply chain management, joint pricing and inventory management in supply chains, supplier selection and negotiations and design and operation of e-auctions and e-marketplaces for procurement.
	Head	Milena	Information Systems	Business	Associate Professor	B.Math, MBA, Ph.D	Trust and Privacy in Electronic Commerce, Mobile Commerce, Interface Design, Technology Adoption, Online Retailing, and Web Navigation
	Longo	Christopher	Strategic Market Leadership and Health Service Management	Business	Assistant Professor	B.A, MSc, Ph.D	Economic evaluation of pharmaceuticals, the public/private mix in the financing of healthcare, and the evaluation of factors influencing patients' financial burden for health care services
	Montazemi	Ali	Information Systems	Business	Professor	H.N.D, M.Sc, Ph.D	Business application of artificial intelligence, decision support system modeling and assessment, business process design through information technology, human-computer interaction, and intelligent agents in support of e-commerce
	Yuan	Yufei	Information Systems	Business	Professor	B.S, Ph.D	Mobile commerce, web-based negotiation support system, business model of electronic commerce, approximate reasoning with fuzzy logic, matching problem, and decision support in health care
	Anand	Christopher	Computing and Software	Engineering	Associate Professor	B.Math, M.Sc, Ph.D	Optimization, Magnetic Resonance Imaging
	Down	Douglas	Computing and Software	Engineering	Professor	B.A.Sc, M.A.Sc, Ph.D	Queing Networks, Communication Networks, Stochastic Processes
	Franek	Frantisek	Computer Science and Mathematics	Engineering	Professor	RNDr, Ph.D	Comp Sci, Combinatorics, Set Theory
	Janicki	Ryszard		Engineering	Professor		Concurrency theory, fundamentals of software engineering, ranking theory
	Malbaum	Tom	Computing and Software	Engineering	Professor	Ph.D	
Poehlman	Skip	Computing and Software	Engineering	Associate Professor	B.S., B.Sc., M.Sc., Ph.D., P.Eng.		
Sartpi	Kamran	Computing and Software	Engineering	Professor	B.Sc, M.Sc, M.Math, Ph.D	Software technology and middleware in electronic health (eHealth), including data and mined-knowledge interoperability and clinical decision support systems	
Wassying	Alan	Computing and Software	Engineering	Associate Professor	B.Sc, M.S, Ph.D		
Part-Time Dedicated to Program	Archer	Norm	Information Systems	Business	Professor	B.Sc, M.S, Ph.D	Electronic health applications and systems; electronic business; identity theft; supply chain management; project management; change management in eGovernment; and mobile commerce
	Drossos	Alex	Health Services Management			MBA	
	Smyth	Bill	Computing and Software	Engineering	Professor	B.A, M.Sc, Ph.D	

Memorial University of Newfoundland

Program Name Applied Health Services Research

CONTACT INFORMATION

Department	N/A
Faculty	Medicine
Program Contact Name	Cathy Peyton, Program Manager
Telephone	709-777-8736
Email	cpeyton@mun.ca
Street	Memorial University of Newfoundland
City	St John's
Province	NF
Postal Code	A1C 5S7

PROGRAM INFORMATION

Program Academic Level	Graduate
Program Comprehensiveness	Full Program
Program Delivery	Combined
Program Attendance	Combined
Program Typical Duration	2 Years
Credential Awarded	Master's Degree MAHSR Master of Applied Health Services Research
Type of Professional Produced by Program List Standard Types (e.g., AHI, RDHI, CHI, HIM,	Research Professional
Type of Role(s) Addressed by Program List Standard Specific Roles (e.g., CIO, Internal Consultant, Teacher, Researcher, etc., all)	services researchers who conduct applied health services research throughout Atlantic Canada, who are trained in interdisciplinary methodologies, and who understand how to communicate research to decision-makers such that it is used in public policy development.
Candidate Pre-requisites for Program	<ul style="list-style-type: none"> • Successful completion of a four-year Bachelor's degree or Bachelor's degree with Honours. • A minimum cumulative grade point average (GPA) of 3.0 (equivalent to a "B" or 75%). • Evidence of proficiency in the English Language (both written and spoken), as defined by the student's anticipated home university.
Co-op Availability or Requirement	Practicum
Program Cost	
Program Registration Due Date	Apr-01
Program Website	http://www.artc-hsr.ca/program.html
Program Admissions Requirement Link	http://www.artc-hsr.ca/apply.html
Program Application Link	http://www.artc-hsr.ca/apply.html
Comments on Program	<p>The Atlantic Regional Training Centre is a collaborative venture of Dalhousie University in Nova Scotia, Memorial University of Newfoundland, the University of New Brunswick, and the University of Prince Edward Island.</p> <p>Please Note: Selected candidates for the ARTC program must reside in Atlantic Canada. Preference for selection is as follows:</p> <ol style="list-style-type: none"> 1. Applicants from Atlantic Region 2. Applicants from the rest of Canada 3. Applicants from outside Canada

SURVEY OF HEALTH INFORMATICS PROGRAMS IN CANADA

PROGRAM CURRICULUM

Program Curriculum Information Link <http://www.artc-hsr.ca/program.html>

Program Courses

Required Courses:
 AHS 6001 Canadian Health System
 AHS 6002 Ethical Foundations of Applied Health Research
 AHS 6003 Research and Evaluation Design and Methods
 AHS 6004 Determinants of Health
 AHS 6005 Policy and Decision Making
 AHS 6006 Qualitative and Quantitative Research Methods
 AHS 6007 Knowledge Transfer and Research Uptake
 AHS 6008 Advanced Qualitative Methods
 or
 AHS 6009 Advanced Quantitative Methods

FACULTY ASSOCIATED WITH PROGRAM

	Last Name	First Name	Department	Faculty	Rank	Credentials	Research Expertise
Full-Time Dedicated to Program	Kearney	Anne	Nursing	Medicine	Assistant Professor	BN, MSc, Ph.D	Breast screening, including broad social factors influencing women's practice of breast self examination and a critical review of the application of screening evidence to policy, interprofessional education and collaboration, primary health care reform, patient safety
	Audas	Rick	Health Statistics and Economics	Medicine	Assistant Professor	BBA, MBA, MA, Ph.D	Health, labour, education, human resource issues in healthcare settings.
	Maddalena	Victor	Community Health and Humanity	Medicine	Assistant Professor	BN, MHSA, PhD	Health policy, vulnerable populations, health human resources, governance and accountability, end of life care

Memorial University of Newfoundland

Program Name Applied Health Services Research

CONTACT INFORMATION

Department	N/A
Faculty	Medicine
Program Contact Name	Medicine
Telephone	Cathy Peyton, Program Manager
Email	709-777-8736
Street	cpeyton@mun.ca
City	Memorial University of Newfoundland
Province	NF
Postal Code	A1C 5S7

PROGRAM INFORMATION

Program Academic Level	Graduate
Program Comprehensiveness	Full Program
Program Delivery	Combined
Program Attendance	Combined
Program Typical Duration	4 Years
Credential Awarded	Doctorate PhD Doctorate of Philosophy in Applied Health Services Research
Type of Professional Produced by Program List Standard Types (e.g., AHI, RDHI, CHI, HIM,	Research Professional
Type of Role(s) Addressed by Program List Standard Specific Roles (e.g., CIO, Internal Candidate Pre-requisites for Program	<p>services researchers who conduct applied health services research throughout Atlantic Canada, who are trained in interdisciplinary methodologies, and who understand how to communicate research to decision-makers such that it is used in public policy development.</p> <p>All students are expected to meet the minimum graduate student entrance requirements of the ARTC University site where they intend to carry out their program of studies. Generally, these requirements include:</p> <ol style="list-style-type: none"> Successful completion of a four-year Bachelor's degree or Bachelor's degree with Honours. A minimum cumulative grade point average (GPA) of 3.0 (equivalent to a "B" or 75%). Evidence of proficiency in the English Language (both written and spoken), as defined by the student's anticipated home university. <p>In addition to the above, applicants for the Ph.D. program are normally required to demonstrate advanced standing in health services research or a related field of study, through completion of a Master's of Applied Health Services Research, or an equivalent combination of research training and professional experience.</p>
Co-op Availability or Requirement	Practicum
Program Cost	
Program Registration Due Date	Spring
Program Website	http://www.artc-hsr.ca/program.html
Program Admissions Requirement Link	http://www.artc-hsr.ca/Documents%20linked%20to/student_handbook_2009-10.pdf
Program Application Link	http://www.artc-hsr.ca/apply.html
Comments on Program	<p>The Atlantic Regional Training Centre is a collaborative venture of Dalhousie University in Nova Scotia, Memorial University of Newfoundland, the University of New Brunswick, and the University of Prince Edward Island.</p> <p>Please Note: Selected candidates for the ARTC program must reside in Atlantic Canada. Preference for selection is as follows:</p> <ol style="list-style-type: none"> Applicants from Atlantic Region Applicants from the rest of Canada Applicants from outside Canada

SURVEY OF HEALTH INFORMATICS PROGRAMS IN CANADA

PROGRAM CURRICULUM

Program Curriculum Information Link http://www.artc-hsr.ca/Documents%20linked%20to%20student_handbook_2009-10.pdf

Program Courses

The course of study at the Ph.D. level is tailored to meet the specific learning needs of more advanced students. An individually tailored body of coursework, selected from among the ARTC Master's courses, is normally assigned to ensure core competence in key areas. Students then proceed through development and approval of thesis research proposal, completion of comprehensive examinations, and finally to the thesis research project.

FACULTY ASSOCIATED WITH PROGRAM

	Last Name	First Name	Department	Faculty	Rank	Credentials	Research Expertise
Full-Time Dedicated to Program	Kearney	Anne	Nursing	Medicine	Assistant Professor	BN, MHSc, Ph.D	Breast screening, including broad social factors influencing women's practice of breast self examination and a critical review of the application of screening evidence to policy, interprofessional education and collaboration, primary health care reform, patient safety
	Audas	Rick	Health Statistics and Economics	Medicine	Assistant Professor	BBA, MBA, MA, Ph.D	Health, labour, education, human resource issues in healthcare settings.
	Maddalena	Victor	Community Health and Humanity	Medicine	Assistant Professor	BN, MHSA, PhD	Health policy, vulnerable populations, health human resources, governance and accountability, end of life care

National Institutes of Health Informatics

Program Name Applied Health Informatics Bootcamp

CONTACT INFORMATION

Department	N/A
Faculty	N/A
Program Contact Name	Meredith Ovenden
Telephone	519-888-4004
Email	bootcampreg@csg.uwaterloo.ca
Street	DC 3333, 200 University Ave. W.
City	Waterloo
Province	ON
Postal Code	N2L 3G1

PROGRAM INFORMATION

Program Academic Level	Undergraduate
Program Comprehensiveness	Full Program
Program Delivery	Combined
Program Attendance	Combined
Program Typical Duration	Typical duration is 2.5 days on-site; access to over 90 hours of online presentations
Credential Awarded	Certificate C Certificate of Completion
Type of Professional Produced by Program List Standard Types (e.g., AHI, RDHI, CHI, HIM,	Applied Health Informatics
Type of Role(s) Addressed by Program List Standard Specific Roles (e.g., CIO, Internal	Applied Health Informaticians, Healthcare information service professionals, E-health staff, Healthcare providers, IT professionals
Candidate Pre-requisites for Program	<ul style="list-style-type: none"> No background is assumed. Knowledge of healthcare and of the health system would be an asset.
Co-op Availability or Requirement	No
Program Cost	\$999 for Onsite Only Student Fee: \$1199 for Onsite and Online \$499 for Onsite Only \$699 for Onsite and Online
Program Registration Due Date	1 week prior to each Bootcamp
Program Website	http://nihi.ca/index.php?MenuItemID=21
Program Admissions Requirement Link	http://nihi.ca/index.php?MenuItemID=156
Program Application Link	http://nihi.ca
Comments on Program	Occurs semi annually, Fall and Spring

PROGRAM CURRICULUM

Program Curriculum Information Link <http://nihi.ca/index.php?MenuItemID=158>

Program Courses

Course Curriculum:
 The Structure of the Healthcare System and its Information and Communications Technology (ICT)
 Health, Healthcare, and their Challenges for Health Informatics
 The Nature, Structure and Management of Health Data and Information and Knowledge
 Applying Health Informatics
 Major Healthcare Applications: Information Systems, Digital Imaging and PACS
 Managing Risk in the Digital Enterprise
 "Intelligent" Health Systems
 Health Communications Systems and Telehealth
 The Health User Interface and Interactive Systems
 Human/Social Aspects of Health Information Systems
 Quality Assessment and Improvement Support
 Health Informatics Education
 Systems Support for Public and Population Health
 Key Personal Skills for Applied Health Informaticians
 Translational Bioinformatics
 Legal and Legislative Issues
 The Future and Persistent Issues in Health Informatics

FACULTY ASSOCIATED WITH PROGRAM

	Last Name	First Name	Department	Faculty	Rank	Credentials	Research Expertise
Full-Time Dedicated to Program	Covvey	Dominic	Biology and Optometry		Professor	BA, MSc, FHIMSS, FACMI	Representation and analysis of healthcare workflow, Health Informatics competency definition and curriculum development, and the design of the Electronic Health Record
	Fenton	Shirley	Computer Systems Group	Computer Science Director		BES, MA	Health informatics, community of practice, innovative Internet applications, community information utilities, and community portals with a focus on health

University of Ontario Institute of Technology

Program Name Health Information Management Specialization in Health Science

CONTACT INFORMATION

Department	N/A
Faculty	Health Sciences
Program Contact Name	Kerry Johnson,
Telephone	905-721-8668 x 2896
Email	kerry.johnson@uoit.ca
Street	2000 Simcoe St. North
City	Oshawa
Province	ON
Postal Code	L1H 7K4

PROGRAM INFORMATION

Program Academic Level	Undergraduate
Program Comprehensiveness	Specialization
Program Delivery	Onsite
Program Attendance	Onsite Only
Program Typical Duration	4 Years
Credential Awarded	Bachelor's Degree BHSc Bachelor of Health Sciences
Type of Professional Produced by Program List Standard Types (e.g., AHI, RDHI, CHI, HIM,	Health Information Management Professional
Type of Role(s) Addressed by Program List Standard Specific Roles (e.g., CIO, Internal	various Health Information Management current and emerging roles
Candidate Pre-requisites for Program	OSSD with a minimum overall average of 70 percent on six 12U or M credits including English (ENG4U) with a minimum grade of 60 percent, biology (SBI4U), and one math (MCB4U or MGA4U or MDM4U)
Co-op Availability or Requirement	No
Program Cost	Approx. \$5000/year More program cost information at: http://www.uoit.ca/EN/main/11258/15102/tuition_fees.html
Program Registration Due Date	January for Fall Admission
Program Website	http://healthsciences.uoit.ca/bhsc/bhscHim_maps1011.html
Program Admissions Requirement Link	https://connect.uoit.ca/uoit/admission/admission.ezc
Program Application Link	http://gradstudies.uoit.ca/EN/main/future_students/application_process.html
Comments on Program	Electronic information is an increasingly important tool for modern health-care practitioners and administrators, who rely on timely, accurate and accessible health data. UOIT's cutting-edge Health Information Management (HIM) program includes a broad look at the organization and management of health organizations, and an introduction to the health of populations. Graduates of this program are expected to be in high demand.

SURVEY OF HEALTH INFORMATICS PROGRAMS IN CANADA

PROGRAM CURRICULUM

Program Curriculum Information Link http://healthsciences.uoit.ca/bhsc/bhscHim_maps1011.html

Program Courses

Year 1:

HLSC 1200U - Anatomy & Physiology I
 HLSC 1201U - Anatomy & Physiology II
 BIOL 1010U - Biology I
 BIOL 1020U - Biology II
 CSCI 1000U/CSCI 1800U - Computing Tools for Health Sciences
 PSYC 1000U - Intro to Psychology
 HLSC 1701U – Academic Writing: Perspectives in Health
 Open Elective
 CHEM 1010U – Chemistry I
 Open Elective

Year 2:

HLSC 2460U - Pathophysiology I
 HLSC 2461U - Pathophysiology II
 HLSC 2201U - Intro to Health Information Management
 HLSC 2801U - Understanding Health Care and Therapeutics in Canada
 HLSC 2400U - Intro to Movement Science
 HLSC 2601U - Introduction to Health Management
 HLSC 2800U – Health & Wellness
 HLSC 3800U – Critical Appraisal of Statistics in Health Science
 SOCI 1000U – Introductory Sociology
 HLSC 2030U – Theory & Practice of Interpersonal Communication

Year 3:

HLSC 3201U - Understanding Health Data
 HLSC 3601U - Interprofessional Health Care Teams
 HLSC 3805U - Introduction to Epidemiology
 HLSC 3630U - Health Finance
 HLSC 3910U – Research Methods for Health Care Professionals
 HLSC 3501U - Health Law
 BUSI 3040U – Information Systems
 HLSC 3202U - Health Data for Decision Making
 HLSC 3481U - Ethics
 HLSC 3212U – Fundamentals of Managing Health Information

Year 4:

HLSC 4998U/4996U - Research Practicum I/ Research Applications I
 HLSC 4999U/4997U - Research Practicum II/ Research Applications II
 HLSC 4850U - Current Issues in Health Care
 HLSC 4620U – Quality Improvement in Health Care
 HLSC 4202U – Advanced Health Information Management
 HLSC 4610U - Systems Analysis in Health Care
 INFR 3810U - Database Systems
 HLSC 4202U – Health Information Management Capstone
 BUSI 2550U – Information Technology Project Management
 Open Elective

FACULTY ASSOCIATED WITH PROGRAM

	Last Name	First Name	Department	Faculty	Rank	Credentials	Research Expertise
Full-Time Dedicated to Program	Johnson	Kerry		Health Sciences	Lecturer	CHIM, MAEd	
Full-Time but not Dedicated to Program	McGregor	Carolyn		Health Sciences	Associate Professor	PhD	High frequency data stream event processing; temporal data mining; protocols for high frequency data stream transmission & storage; patient journey modeling; services computing models; serious gaming techniques to support user interface design & training.
	Lu	Fletcher		Health Sciences	Assistant Professor	PhD	Health care management, decision support support systems, mining information & search methods, robotics prosthetic tools.
Part-Time Dedicated to Program	Elias	Linda		Health Sciences	Lecturer	CHIM, MHSc	

University of Ontario Institute of Technology

Program Name Health Informatics

CONTACT INFORMATION

Department	N/A
Faculty	Health Sciences
Program Contact Name	Robert Weaver
Telephone	905-721-8668 x3705
Email	Robert.Weaver@uoit.ca
Street	2000 Simcoe St. North
City	Oshawa
Province	ON
Postal Code	L1H 7K4

PROGRAM INFORMATION

Program Academic Level	Graduate
Program Comprehensiveness	Full Program
Program Delivery	Onsite
Program Attendance	Onsite Only
Program Typical Duration	2 Years
Credential Awarded	Master's Degree MHSc Master of Health Sciences
Type of Professional Produced by Program List Standard Types (e.g., AHI, RDHI, CHI, HIM,	N/A
Type of Role(s) Addressed by Program List Standard Specific Roles (e.g., CIO, Internal	Offer various clinical informatics services, analyze clinical data, or design, implement and manage health informatics systems.
Candidate Pre-requisites for Program	<ul style="list-style-type: none"> • Hold a four-year honours degree or its equivalent from a recognized institution in the area of graduate study or a closely related subject; and • Overall academic standing of at least a B (GPA = 3.0 on a 4.0/4.3 scale), with a minimum B in the last two full-time years (four semesters) of undergraduate work or equivalent.
Co-op Availability or Requirement	No
Program Cost	First Year Tuition: \$7,347 More program cost information at: http://gradstudies.uoit.ca/EN/main/future_students/tuition_and_fees/fulltimefees.ht Years After First: \$7,077
Program Registration Due Date	February for Fall Submission
Program Website	http://healthsciences.uoit.ca/mhsc/informatics.html
Program Admissions Requirement Link	http://gradstudies.uoit.ca/EN/main/future_students/application_process/admissionrequirements.html
Program Application Link	http://gradstudies.uoit.ca/EN/main/future_students/application_process.html
Comments on Program	

SURVEY OF HEALTH INFORMATICS PROGRAMS IN CANADA

PROGRAM CURRICULUM

Program Curriculum Information Link <http://healthsciences.uoit.ca/mhsc/informatics.html>

Program Courses

Required:
 HLSC 5050G Patient Journey Modeling
 HLSC 5010G Research in the Health Sciences
 HLSC 5096G MSc Thesis in Health Sciences

Electives:
 HLSC 5203G Adoption, Use and Impact of Health Informatics Systems
 HLSC 5204G Artificial Intelligence in Health Care
 MITS 5100G Legal Issues, Ethics and Incident Handling in IT Security
 MITS 5400G Secure Software Systems
 ENGR 5770G Service Computing
 ENGR 5750G Software Quality Management
 ENGR 5740G User Interface Design
 ENGR 5720G Pervasive and Mobile Computing
 HLSC 5290G Advanced Topics in Patient Journey Modeling
 HLSC 5291G Advanced Topics in Health Informatics Research
 HLSC 5060G Special Topics in Health Sciences Research

FACULTY ASSOCIATED WITH PROGRAM

	Last Name	First Name	Department	Faculty	Rank	Credentials	Research Expertise
Full-Time Dedicated to Program	McGregor	Carolyn		Health Sciences	Associate Professor	PhD	High frequency data stream event processing; temporal data mining; protocols for high frequency data stream transmission & storage; patient journey modeling; services computing models; serious gaming techniques to support user interface design & training.

University of Ottawa

Program Name Health Systems

CONTACT INFORMATION

Department	N/A
Faculty	Telfer School of Management
Program Contact Name	Graduate Office
Telephone	613-562-5884
Email	msc@telfer.uottawa.ca
Street	Desmarais Building 55 Laurier Avenue East; Room 4160
City	Ottawa
Province	ON
Postal Code	K1N 6N5

PROGRAM INFORMATION

Program Academic Level	Graduate
Program Comprehensiveness	Full Program
Program Delivery	Onsite
Program Attendance	Onsite Only
Program Typical Duration	2 Years
Credential Awarded	Master's Degree MSc Master of Science
Type of Professional Produced by Program List Standard Types (e.g., AHI, RDHI, CHI, HIM,	Health-care research or analyst
Type of Role(s) Addressed by Program List Standard Specific Roles (e.g., CIO, Internal Consultant, Teacher, Researcher, etc., all)	Research in following fields: clinical support systems, emergency management systems, performance management systems, health-care strategy, environmental health, public-service management, management of information systems

Candidate Pre-requisites for Program

- Four-year bachelor's (honours) degree in management (B.Com), health sciences, life sciences, medicine, nursing, computer science, economics, social sciences, engineering, mathematics or a related field, or its equivalent;
- Minimum B+ (75%) cumulative grade point average (CGPA);
- 6 credits of analysis courses at bachelor's level in quantitative and qualitative research methods, micro and macro economics, calculus, probability and statistics, linear algebra, and information technology;
- Note: students lacking background in quantitative analysis may be asked to complete prerequisite course as a condition of admission.
- Achieve a competitive score in the Graduate Management Admission Test (GMAT) The average score was 680 in 2010. The GRE test also accepted;
- English proficiency;
- An interview with admission committee may be required.

Co-op Availability or Requirement	Practicum
Program Cost	Approximately \$8, 000 for 3 terms. For more program cost information.http://www.registrar.uottawa.ca/Default.aspx?tabid=3619
Program Registration Due Date	Canadian & U.S.A. Students: April 1 International Students: February 1
Program Website	http://www.telfer.uottawa.ca/mschs/en/home
Program Admissions Requirement Link	http://www.telfer.uottawa.ca/mschs/en/admission
Program Application Link	http://www.telfer.uottawa.ca/mschs/en/admission

Comments on Program

PROGRAM CURRICULUM

Program Curriculum Information Link <http://www.telfer.uottawa.ca/mschs/en/current-students>

Program Courses	<p>Core Courses (9 credits)</p> <ul style="list-style-type: none"> •MHS 5301/5701 Research Design Methodologies and the Conduct of Research (3 credits) •MHS 6380/6780 Systems Analysis, Modeling, and Decision Support for Health / (3 credits) •MHS 6990 Health Systems Research Seminar (1.5 credits) •At least 1.5 credits of MHA courses <p>Elective Courses (6 credits)</p> <p>Students in consultation with their thesis supervisor will select elective courses in areas related to their research topics. In particular, all courses offered in the MHA program are open to the MSc students.</p> <p>MHA Courses</p> <ul style="list-style-type: none"> MBA5235 MANAGEMENT SKILLS 1 (1.5cr.) MBA5236 LEADERSHIP AND MANAGEMENT (1.5cr.) MBA5260 THE WORLD OF THE GENERAL MANAGER AND OF STRATEGIC MANAGEMENT (1.5cr.) MBA5265 PERFORMANCE MANAGEMENT (1.5cr.) MBA5300 DATA ANALYSIS (3cr.) MBA5330 ORGANIZATIONAL BEHAVIOUR AND HUMAN RESOURCES MANAGEMENT (3cr.) MBA5340 FINANCIAL ACCOUNTING INFORMATION AND DECISIONS (3cr.) MBA5635 HABILITÉS DE GESTION 1 (1.5cr.) MBA5636 LEADERSHIP ET GESTION (1.5cr.) MBA5660 L'UNIVERS DU DIRECTEUR GÉNÉRAL ET LE MANAGEMENT STRATÉGIQUE (1.5cr.) MBA5665 GESTION DE LA PERFORMANCE (1.5cr.) 	<ul style="list-style-type: none"> MBA5700 ANALYSE DE DONNÉES EN GESTION (3cr.) MBA5730 COMPORTEMENTS ORGANISATIONNELS ET GESTION DES RESSOURCES HUMAINES (3cr.) MBA5740 INFORMATION COMPTABLE ET DÉCISION (3cr.) ADM6260 PROJECT MANAGEMENT I (1.5cr.) MHA6203 PROGRAM EVALUATION FOR HEALTH CARE MANAGERS (1.5cr.) MHA6212 GOVERNANCE AND ETHICAL MANAGEMENT IN HEALTH CARE ORGANIZATIONS (1.5cr.) MHA6213 DIRECTED READINGS IN HEALTH CARE MANAGEMENT (3cr.) MHA6215 MANAGEMENT AND EVALUATION OF QUALITY OF PATIENT CARE (1.5cr.) MHA6216 RISK MANAGEMENT IN HEALTH CARE (1.5cr.) MHA6230 HUMAN RESOURCE MANAGEMENT IN HEALTH CARE (1.5cr.) MHA6250 HEALTH CARE ACCOUNTING AND FINANCE (1.5cr.) MHA6266 INTERNATIONAL PERSPECTIVES IN HEALTH CARE (1.5cr.) MHA6271 APPLICATION OF INFORMATION TECHNOLOGY IN HEALTH CARE (1.5cr.) MHA6301 POPULATION HEALTH AND EPIDEMIOLOGY (3cr.) MHA6351 HEALTH ECONOMICS (3cr.) MHA6360 HEALTH CARE IN CANADA - OVERVIEW (3cr.) MHA6361 LEADING STRATEGY AND CHANGE IN HEALTH CARE ORGANIZATIONS (3cr.) MHA6370 INTRODUCTION TO HEALTH INFORMATICS (3cr.) MHA6380 QUANTITATIVE METHODS AND THEIR APPLICATIONS TO HEALTH CARE DECISION MAKING (3cr.) MHA6990 STAGE ADMINISTRATIF ET PROJET PRATIQUE EN GESTION DES SERVICES DE SANTÉ / HEALTH CARE ADMINISTRATIVE RESIDENCY AND FIELD PROJECT (7.5cr.)
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SURVEY OF HEALTH INFORMATICS PROGRAMS IN CANADA

FACULTY ASSOCIATED WITH PROGRAM

	Last Name	First Name	Department	Faculty	Rank	Credentials	Research Expertise
Dedicated to Management	Andrew	Caroline	School of Political Studies	Social Sciences	Professor	B.A., M.Sc., PhD	Intergovernmental relations in Canada, Management of diversity, Municipal politics, Social policies (municipal), Urban development, Urban politics-planning and the process of public participation, Voluntary sector, Women (access to public services), Women and politics
	Angus	Doug		Telfer School of Management	Professor	B.Com (St. Patrick's College), M.A (Ottawa), PhD	Health economics and policy, Strategic management, Health care management
	Barrette	Jacques		Telfer School of Management	Professor	BA, License, Masters, PhD	Human resources management, performance management, integration into the workplace of people with communication disorders, HRM practice and organization performance, work adaptation and performance, management strategies, organizational learning, organizational involvement, diversity on the workplace and performance management
	Bégin	Monique		Telfer School of Management	Professor		Expert on health systems, particular focus in Canada
	Ben Amor	Sarah		Telfer School of Management	Assistant Professor	M.Sc, PhD	
	Chreim	Samia		Telfer School of Management	Associate Professor	Ph.D	Institutional and organizational change, organizational identity and discourse, Health Care Management
	Eden	Ron		Telfer School of Management	Associate Professor	B.A., MBA, C.M.A., Ph.D.	Strategic Management Accounting, Financing Local Government in Canada, Health Care Costing
	Lane	Daniel		Telfer School of Management	Professor	B.Sc (Xavier), M.A.Sc (Waterloo), Ph.D. (UBC)	Decision analysis and support; management science
	Zaric	Greg		Telfer School of Management	Lecturer	B.Sc., M.A.Sc., Ph.D.	Management science, health economics, pharmacoeconomics, cost effectiveness analysis, simulation, compartmental models, HIV policy analysis
Dedicated to Informatics	Benyoucef	Morad		Telfer School of Management	Associate Professor	B.Sc. (Constatine), M.Sc. (Rochester), Ph.D. (Montreal)	Software Engineering, Internet Technologies, Electronic Negotiations, Online Trust, E-Procurement
	Buckeridge	David		Telfer School of Management	Lecturer	MD, MSc, PhD	informatics of public health surveillance, development and evaluation of methods for surveillance systems that use clinical and administrative data.
	Ei Emam	Khaled	Pediatrics	Medicine			Understanding the human, organizational, and technological factors that affect the quality and utility of data contained in electronic health records.
	Jaana	Mirou		Telfer School of Management	Associate Professor	PhD, Certificate of Health Informatics	health services research and IT in healthcare, including IT sophistication in health care settings, risks in health IT projects, telehealth applications, and specific aspects of healthcare services (e.g., patient safety, quality, access to care).
	Kuziemyk	Craig		Telfer School of Management	Assistant Professor	BSc (Alberta), BCom (Alberta), PhD (Victoria)	developing a novel methodological approach for integrating the diverse information flows and work processes of collaborative healthcare teams. This research will design ICTs to integrate the different healthcare providers who make complex decisions based on different levels of knowledge while they work at different locations.
	Matwin	Stan	Engineering	School of Information Technology and Engineering	Professor	PhD.	Artificial Intelligence, Machine Learning, Data Mining, Text Mining, Bioinformatics, and Data Privacy.
	Michalowski	Wojtek		Telfer School of Management	Professor	M. Econ (Warsaw), Ph.D. (Warsaw)	decision analysis, multiple objective linear programming, medical decision making, health care management, ontological modeling and rough sets theory
	Raahemi	Bijan		Telfer School of Management	Associate Professor	B.Sc. (Isfahan), M.Sc. (Sharif), Ph.D. (Waterloo)	Information Systems, Data Mining and Knowledge Discovery, Data Communications Networks and Services, Systems Modeling, Simulation, and Performance Analysis.
	Viktor	Herna	Engineering	School of Information Technology and Engineering	Associate Professor	Ph.D.	data mining of large-scale object-relational databases
Dedicated to Empirical Studies	Bourgeault	Ivy Lynn		Health Sciences	Professor	B.Sc. (Alberta) M.Sc. (Toronto) Ph.D. (Toronto)	International reputation for her research on health professions, health policy and women's health and migration of health professionals with a particular focus on Canada, the U.S., the U.K.
	Brand	Kevin		Telfer School of Management	Assistant Professor	B.A.Sc (Toronto), MS (Carnegie-Mellon), S.M. (Harvard), Scolarité de doctorat (Harvard)	applies mathematical modeling, uncertainty analysis, and decision analysis to better understand and better implement the components (such as exposure response assessment, and inter-species extrapolations) that are integral to human health risk assessments (HRA). In recent years he has studied the methods for burden of disease and health valuation (linking them with HRA methods).
	Cappelli	Mario	School of Psychology	Social Sciences	Professor	Ph.D. (Carleton) M.A. (Carleton) B.A. (Ottawa)	Child clinical, Pediatric/health psychology
	Carter	Michael		Telfer School of Management	Lecturer	Ph.D. (Waterloo)	health care resource modeling with a variety of projects in hospitals, home care, rehab, long term care, medical labs and mental health institutions
	Chambers	Larry	Epidemiology and Community Medicine	Medicine	Professor	Ph.D., FACE, HonFFPH	Community Cardiovascular Health Awareness, Interdisciplinary Collaboration in Service Delivery, Health surveillance, Support of Caregivers of people with Alzheimer's disease and other Dementias
	Coyle	Doug	Epidemiology and Community Medicine	Medicine	Professor	Ma, MSc, Ph.D.	Health Economics, Economic Evaluation, Health Technology Assessment, Decision Analysis, Prioritization of Research Funding, Health Policy
	Farion	Ken		Medicine	Assistant Professor	MD, FRCPC	development of clinical decision support systems for use in the Emergency Department
	Garcia	Linda	Interdisciplinary School of Health Sciences	Health Sciences	Professor	Ph.D.	Role played by environmental factors (social and physical) in the integration of adults with communication disorders of neurological origin (especially dementia and aphasia), Use of disability models to collect information related to the consequences of disease, disorder and trauma.

SURVEY OF HEALTH INFORMATICS PROGRAMS IN CANADA

Grimshaw	Jeremy	Epidemiology and Community Medicine	Medicine	Professor	MBChB, Ph.D., FRCGP	Knowledge translation, Quality improvement, Complex interventions, Systematic reviews, Cluster randomized trials, Quasi experimental studies, Behavioural Theories (and their application to professional behaviour)
Moher	David	Epidemiology and Community Medicine	Medicine	Associate Professor	DipSW, MSc, PhD	Influence of Bias in Clinical Trials and Systematic Reviews, Reporting of Clinical Trials and Systematic Reviews
Patrick	Johnathan		Telfer School of Management	Assistant Professor	B. Arts & Sc., M.Sc., PhD	Markov Decision Processes and Decision Analysis, Simulation, Applying Operations Research to Challenges in Health Care Management
O'Connor	Annette M. Cormier	School of Nursing	Health Sciences	Professor	Ph.D., M.Sc.N., RN, B.Sc.N.	Development and evaluation of decision aids, Development and testing of decision support/evaluation methods, Educating health practitioners/clinicians and consumers in shared decision making, Decision conflict models
Orsini	Michael	School of Political Studies	Social Sciences	Associate Professor	B.A., M.A., Ph.D.	Health policy, Interest groups, Public policy, Social movements, VIH/SIDA, Qualitative research, Narrative Analysis
Marie-Pascale	Pomey		Telfer School of Management	Associate Professor	Ph.D.	Canadian, US and European health care systems, Health care quality, Impact of accreditation systems on health care organizations, Health policies, Health system governance
Schrecker	Ted	Epidemiology and Community Medicine	Medicine	Associate Professor	MA	Globalization and Health Health Ethics Resource Allocation Environment Policy and Politics Urban Health
Tugwell	Peter	Epidemiology and Community Medicine	Medicine	Professor	Ph.D.	Clinical Epidemiology, Global Health: Methods for summarising and dissemination of systematic reviews of educational, health, legal and social strategies to reduce inequitable inequalities in health in individuals and populations. Clinical Trials and Outcome Measures in Rheumatology, Knowledge Translation
Verter	Vedat		Telfer School of Management	Adjunct Professor	BS Bogazici University, MS Bogazici University, PhD Bilkent University	supply chain design, reverse logistics, transportation of hazardous materials and healthcare operations management.
Wells	Phil	Medicine	Medicine	Professor	MD, FRCPC	diagnosis of pulmonary embolism (PE) and deep vein thrombosis (DVT), treatment and meta-analysis.
Kristjansson	Elizabeth	School of Psychology	Social Sciences	Associate Professor	B.A., M.A., Ph.D.	Food insecurity, Population health, Psychometrics, Psychosocial determinants of health
O'Sullivan	Tracey	Interdisciplinary School of Health Sciences	Health Sciences	Assistant Professor	PhD, MA, BA/BPHE	resilience and psychosocial stressors, Family care giving for persons with Dementia or recovering from stroke, Occupational supports for employed family caregivers and essential service personnel, Emergency preparedness and resilience-oriented interventions to reduce vulnerability, Disaster response and high risk populations

Red River College

Program Name Health Information Management

CONTACT INFORMATION

Department	N/A
Faculty	Health and Applied Sciences
Program Contact Name	David Thomas, Program Coordinator
Telephone	204-632-2273
Email	dthomas@rrc.mb.ca
Street	2055 Notre Dame Avenue
City	Winnipeg
Province	MB
Postal Code	R3H 0J9

PROGRAM INFORMATION

Program Academic Level	Undergraduate
Program Comprehensiveness	Full Program
Program Delivery	Onsite
Program Attendance	Onsite Only
Program Typical Duration	2 Years
Credential Awarded	Diploma D Diploma in Health Information Management
Type of Professional Produced by Program List Standard Types (e.g., AHI, RDHI, CHI, HIM,	Health Information Management Specialist
Type of Role(s) Addressed by Program List Standard Specific Roles (e.g., CIO, Internal	Coding Specialist, Data Analyst, Privacy Officer, Health Information Manager/Supervisor, Researcher
Candidate Pre-requisites for Program	<ul style="list-style-type: none"> Manitoba senior 4 including one credit in Biology or Chemistry. Participate in an information session with members of the Health Information Technologist Admissions Committee. Attend a hospital orientation tour. Submit a 500 word essay covering what interests them about the HIM program
Co-op Availability or Requirement	Practicum
Program Cost	Yearly Tuition: \$2,473.00 For more program cost information, see: http://me.rrc.mb.ca/Catalogue/ProgramDatesAndFees.aspx?ProgCode=HEAIF-DP&RegionCode=WPG
Program Registration Due Date	July for Fall submission in alternate years
Program Website	http://me.rrc.mb.ca/Catalogue/ProgramInfo.aspx?RegionCode=WPG&ProgCode=HEAIF-DP
Program Admissions Requirement Link	http://me.rrc.mb.ca/Catalogue/ProgramInfo.aspx?ProgCode=HEAIF-DP&DescriptionType=13&RegionCode=WPG
Program Application Link	http://www.rrc.mb.ca/index.php?pid=272
Comments on Program	This program is recognized by the Canadian Health Information Management Association (CHIMA). Graduates are eligible to write the national certification exam administered by CHIMA.

SURVEY OF HEALTH INFORMATICS PROGRAMS IN CANADA

PROGRAM CURRICULUM

Program Curriculum Information Link <http://me.rrc.mb.ca/Catalogue/CourseDescriptions.aspx?ProgCode=HEAIF-DP&RegionCode=WPG>

Program Courses

Year 1, Term 1:

COMM-1054 Communications
 COMP-1044 Health Computing 1
 HLTH-1084 Medical Terminology
 SCIE-1024 Health Information Science 1
 ZOOL-1071 Human Anatomy and Physiology

Year 1, Term 2:

COMP-2047 Health Computing 2
 HLTH-1093 Management Principles
 HLTH-1837 Coding 1
 PHAR-1013 Pharmacology
 SCIE-2025 Health Information Science 2
 ZOOL-1072 Human Anatomy and Physiology

Year 2, Term 3:

COMP-2015 Health Computing 3
 HLTH-1080 Introduction to Health Care Delivery
 HLTH-2000 Pathophysiology 1
 HLTH-3006 Coding 2
 MATH-2166 Statistics

Year 2, Term 4:

COMP-3049 Health Computing 4
 HLAW-2050 Health Information Law
 HLTH-3001 Intro to Healthcare Research Methods & Epidemiology
 HLTH-3002 Pathophysiology 2
 HLTH-3005 Coding 3
 PRAC-3000 Hospital Practicum

FACULTY ASSOCIATED WITH PROGRAM

	Last Name	First Name	Department	Faculty	Rank	Credentials	Research Expertise
Full-Time Dedicated to Program	Oleski	Eileen	Applied Commerce and Management Education		Professor		

Ryerson University

Program Name Health Information Management

CONTACT INFORMATION

Department/School	School of Health Services Management
Faculty	Community Services
Program Contact Name	Dr. Winston Isaac
Telephone	416-979-5000 x 6643
Email	wisaac@ryerson.ca
Street	350 Victoria Street
City	Toronto
Province	ON
Postal Code	M5B 2K3

PROGRAM INFORMATION

Program Academic Level	Undergraduate
Program Comprehensiveness	Full Program
Program Delivery	Onsite
Program Attendance	Combined
Program Typical Duration	Part-Time (equivalent to 2 Years of Full-Time Study)
Professionally Required Courses	Bachelor's Degree BHA Bachelor of Health Administration
Type of Professional Produced by Program List Standard Types (e.g., AHI, RDHI, CHI, HIM,	Academic; Industry - e.g., Pharmaceutical
Type of Role(s) Addressed by Program List Standard Specific Roles (e.g., CIO, Internal	Health Records Management, Decision Support Analyst
Candidate Pre-requisites for Program	Stream A - graduated from health record/health information program accredited by CHIMA. Stream B - graduated with 3 year diploma in health sciences.
Co-op Availability or Requirement	Practicum
Program Cost	Yearly Tuition (estimate): \$6000-7000
Program Registration Due Date	August for Fall semester; December for Winter semester; April for Spring semester
Program Website	http://www.ryerson.ca/hsm/him.html
Program Admissions Requirement Link	http://www.ryerson.ca/undergraduate/admission/programs/him.html
Program Application Link	http://www.ryerson.ca/undergraduate/admission/apply/
Comments on Program	This program is recognized by the Canadian Health Information Management Association (CHIMA).

SURVEY OF HEALTH INFORMATICS PROGRAMS IN CANADA

PROGRAM CURRICULUM

Program Curriculum Information Link <http://www.ryerson.ca/hsm/him.html>

Program Courses

Professionally Required Courses

CHIM 300 - Managing Health Information Services
 CHIM 301 - Healthcare Information Analysis
 CHIM 302 - Health Information Systems Management
 CHSM 301 - The Healthcare System
 CHSM 326 - Law for Health Managers
 CHIM 403 - Managerial Accounting and Finance
 CHIM 404 - Health Economics
 CHIM 405 - Issues in Health Information Management
 CHSM 408 - Program Planning and Evaluation
 CHSM 417 - Research Methodology
 CHSM 437 - Human Resource Management
 CHIM 406 - Practicum Seminar
 CHIM 407 - Practicum

Professionally Related Required

CACC 100 - Introductory Financial Accounting
 CECN 104 - Introductory Microeconomics
 CECN 204 - Introductory Macroeconomics

**Professionally Related Electives
Level 1 and 2**

CINT 901 - Gerontology: Critical Issues and Future Trends
 CINT 904 - Health Promotion and Community Development
 CINT 907 - Team Work for Community Services
 CINT 908 - Homelessness in Canadian Society
 CINT 910 - First Nations Issues
 CITM 100 - Business and Information Systems
 CITM 102 - Business Information Systems 1
 CITM 305 - Systems Analysis and Design
 CITM 310 - Introduction to Network Technology
 CITM 320 - Database Applications
 CITM 420 - Information Systems Security and Control
 CITM 425 - Software Evaluation Methods
 CITM 500 - Database Analysis and Design
 CITM 505 - Managing Information Systems & Telecommunications
 CITM 595 - Auditing of Information Systems
 CITM 610 - Database Administration
 CMHR 522 - Industrial Relations
 CMKT 100 - Marketing
 CQMS 402 - Quality Management
 CQMS 521 - Business Optimization
 CQMS 621 - Introduction to Quality Control

FACULTY ASSOCIATED WITH PROGRAM

	Last Name	First Name	Department	Faculty	Rank	Credentials	Research Expertise
Full-Time Dedicated to Program	Valentino	Caterina	School of Health Services Management	Community Services		BSc, MPA, MBA, Ph.D	
	Nippak	Pria	School of Health Services Management	Community Services		HBSc ,MSc, Ph.D	
Part-time Dedicated to Program	Isaac	Winston	School of Health Services Management	Community Services		CHE, Ph.D	
	Gamble	Brenda	School of Health Services Management	Community Services		Ph.D	
	Tucker	Terrie	School of Health Services Management	Community Services		BA, MBA	
	Newman	Michael				LLB, LLM (Health Law)	
	Copeland	Angela				M.Ed, CPHIMS	
	Pringle	Jake	School of Health Services Management	Community Services		BSc, MBA	
	Kwan	Jeff				MBA, CMA	

Saskatchewan Institute of Applied Science and Technology (SIAST)

Program Name Health Information Management

CONTACT INFORMATION

Department	N/A
Faculty	Wascana (Regina) Campus
Program Contact Name	Tara Fournier
Telephone	306-775-7642
Email	Tara.Fournier@siast.sk.ca
Street	PO Box 556
City	Regina
Province	SK
Postal Code	S4P 3A3

PROGRAM INFORMATION

Program Academic Level	Undergraduate
Program Comprehensiveness	Full Program
Program Delivery	Onsite and/or Distance
Program Attendance	Onsite and/or Distance
Program Typical Duration	2 Years; must be completed within 5 years
Credential Awarded	Diploma D Diploma in Health Information Management
Type of Professional Produced by Program List Standard Types (e.g., AHI, RDHI, CHI, HIM,	Health Information Management
Type of Role(s) Addressed by Program List Standard Specific Roles (e.g., CIO, Internal	Clinical Coder Clinician, Health Information Analyst, Health Information Manager, Utilization Manager, Data Quality Coordinator, Privacy Officer, Research Assistant, eHIM Consultant
Candidate Pre-requisites for Program	<ul style="list-style-type: none"> Grade 12 with a minimum overall average of 65% in the following subjects: English Language Arts A30, English Language Arts B30, one of Social Studies 30, History 30 or Native Studies 30, one 30 level math and one 30 level science (one of Biology, Chemistry or Physics) Minimum keyboarding speed of 30 words per minute
Co-op Availability or Requirement	Practicum
Program Cost	Year 1 Tuition Fee: \$3540 For more program cost information, see: Year 2 Tuition Fee: \$3422 http://www.siastr.ca/admissions/fee_tuitions/Documents/Wascana_T___F_Schedule_2010-11_Website.pdf
Program Registration Due Date	First Qualified/First Admitted by Sept
Program Website	http://futurewww.siastr.ca/programs_courses_descriptions/HINFDP.shtml
Program Admissions Requirement Link	http://www.siastr.ca/admissions/
Program Application Link	http://www.siastr.ca/admissions/
Comments on Program	<p>The Health Information Management program is designed for people who are detail-oriented, excel in computer skills, have good interpersonal communications and have a keen sense of organization and accuracy.</p> <p>This program is recognized by the Canadian Health Information Management Association (CHIMA). Graduates are eligible to write the national certification exam administered by CHIMA.</p>

PROGRAM CURRICULUM

Program Curriculum Information Link

http://futurewww.siastr.sk.ca/programs_courses_descriptions/HINFDIP.shtml**Program Courses****Year 1 - Semester 1**

- APHY 162 Anatomy and Physiology 1
- CLIN 161 Clinical - Semester 1
- COMM 262 Workplace Communication
- COMM 291 Interpersonal Communications
- COMP 173 Introduction to Microsoft PowerPoint and Web Publishing
- COMP 174 Introduction to Microsoft Excel 1
- HINF 160 Health Record Systems
- MED_ 161 Medical Terminology
- PATH 161 Pathophysiology 1

Year 1 - Semester 2A

- APHY 262 Anatomy and Physiology 2
- CLIN 259 Clinical - Semester 2
- HINF 161 Health Information Analysis 1
- PATH 270 Pathophysiology 2
- PATH 271 Pathophysiology 3

Year 1 - Semester 2B

- PRAC 165 Health Information Practicum 1

Year 2 - Semester 3

- COMP 175 Introduction to Microsoft Excel 2
- COMP 176 Introduction to Microsoft Access 1
- COSC 262 Database Programming
- HINF 260 Health Care Delivery and Epidemiology
- HINF 261 Health Information Analysis 2
- HINF 262 Health Care Law and Ethics
- HINF 264 Selected Topics in Health Information Management
- HINF 265 Health Information Systems
- STAT 260 Statistics for Health Sciences

Year 2 - Semester 4

- CLIN 288 Clinical - Semester 4
- HINF 263 Human Resource Management in Health Care
- PSYC 160 Psychology 1

Year 2 - Semester 4B

- PRAC 262 Health Information Practicum 2

SURVEY OF HEALTH INFORMATICS PROGRAMS IN CANADA

PROGRAM CURRICULUM

Program Curriculum Information Link (Health Informatics)	http://www.usherbrooke.ca/informatique-sante/english/program/health-informatics-microprogramme/courses/
Program Curriculum Information Link (Standards in Health Informatics)	http://www.usherbrooke.ca/informatique-sante/english/program/standards-in-health-informatics-microprogramme/courses/
Program Courses (Health Informatics)	ISA102 Pedagogical Principles (1 credit) ISA300 Health Sciences (1 credit) ISA306 Information systems (3 credits) ISA302 Health System Data and the EHR (3 credits) ISA303 Telemedicine (1 credit) ISA304 Epidemiology, analyses and tools (2 credits) ISA115 Ethics in Health Informatics (1 credit) ISA305 Choice and Evaluation of Systems (1 credit)
Program Courses (Standards in Health Informatics)	ISA201 Introduction to standards (1 crédit) ISA202 Terminologies (2 crédits) ISA203 Architectures (2 crédits) ISA205 Simulation : standards organization (1 crédit) ISA206 HL7 (Health Level 7) (3 crédits)

FACULTY ASSOCIATED WITH PROGRAM

	Last Name	First Name	Department	Faculty	Rank	Credentials	Research Expertise
Part-Time but not Dedicated to Program	Grant	Andrew	Community Health	Medicine and Health Sciences	Professor	M.B., Ch.B., M.R.C.P., F.R.C.P.C., D.Phil, F.A.C.M.I.	Optimized transfer of laboratory tests for the research into practice; Biomedical informatics; Modeling decisions.
	Bensaber	Boucif		Medicine and Health Sciences	Lecturer		
	Gibson	Candace	Community Health Sciences	Medicine and Health Sciences	Lecturer		
	Leblanc	Frédéric		Medicine and Health Sciences	Lecturer		
	Lemieux	Renald		Medicine and Health Sciences	Lecturer		
	Tsanaclis	Albert		Medicine and Health Sciences	Professor		
	Bisson	Guy	Community Health Sciences	Medicine and Health Sciences	Lecturer		
	Johnson	Kerry	Community Health Sciences	Medicine and Health Sciences	Lecturer		
	Léger	Marc-André		Medicine and Health Sciences	Lecturer		
	Parent	Monelle		Medicine and Health Sciences	Lecturer		
	Bellemare	Ghislain	Community Health Sciences	Medicine and Health Sciences	Lecturer		
	Fabry	Paul	Community Health Sciences	Medicine and Health Sciences	Lecturer		
	Tardif	Pierre-Martin		Medicine and Health Sciences	Lecturer		
	Curry	Jane	Community Health Sciences	Medicine and Health Sciences	Lecturer		
Boivin	Michel		Medicine and Health Sciences	Lecturer			

Southern Alberta Institute of Technology (SAIT)

Program Name Health Information Management

CONTACT INFORMATION

Department	School of Health and Public Safety
Faculty	N/A
Program Contact Name	Shawn Turcotte
Telephone	(403) 284-7108
Email	shawn.turcotte@sait.ca
Street	1301 16th Ave NW
City	Calgary
Province	AB
Postal Code	T2M 0L4

PROGRAM INFORMATION

Program Academic Level	Undergraduate
Program Comprehensiveness	Full Program
Program Delivery	Onsite
Program Attendance	Onsite and/or Distance
Program Typical Duration	2 Years
Credential Awarded	Diploma D Diploma in Health Information Management
Type of Professional Produced by Program List Standard Types (e.g., AHI, RDHI, CHI, HIM, hybrids, ...)	HIM Professional
Type of Role(s) Addressed by Program List Standard Specific Roles (e.g., CIO, Internal ...)	Clinical Coder Clinician, Health Information Analyst, Health Information Manager, Utilization Manager, Data Quality Coordinator, Privacy Officer, Research Assistant, eHIM Consultant.
Candidate Pre-requisites for Program	<ul style="list-style-type: none"> • Alberta high school diploma or equivalent Minimum 60% in: English Lang. Arts 30-1 or 30-2; Biology 30; Minimum 50% in Pure Math 30, Applied Math 30 or Math 31 • English Proficiency • Access to a personal computer • Sign a practicum agreement contract (more details and info for mature students, and post-secondary equivalents on website)
Co-op Availability or Requirement	Practicum
Program Cost	Year 1 Tuition: \$4,256 Year 2 Tuition: \$3,869
Program Registration Due Date	Continuous intake until the program meets quota.
Program Website	http://www.sait.ca/pages/cometosait/academic/diplomas/ahim.shtml
Program Admissions Requirement Link	http://www.sait.ca/pages/cometosait/academic/diplomas/ahim.shtml
Program Application Link	http://www.sait.ca/pages/cometosait/howtoapply/step_by_step_tutorial/index.shtml
Comments on Program	

PROGRAM CURRICULUM

Program Curriculum Information Link

<http://www.sait.ca/pages/cometosait/academic/diplomas/ahim.shtml>

Program Courses

Semester 1:

ANPH-209* Anatomy & Physiology
 CDAB-210 Data Classification 1
 COMP-264 MS Office Basics
 HILA-200* Health Information Law 1
 HRSC-210 Health Record Science 1
 MEDT-211* Medical Terminology 1
 PATH-242* Pathophysiology 1

Semester 2:

CDAB-260 Data Classification 2
 HCPP-240 Healthcare Software Applications
 HILA-250 Health Information Law 2
 MDTR-255 Medical Transcription
 MEDT-261* Medical Terminology 2
 PATH-252* Pathophysiology 2
 PROF-240 Healthcare Professionalism

Semester 3:

PRAC-264 Practicum 1 – HIM

Semester 4:

ANPR-300 Analysis & Presentation
 CDAB-310 Data Classification 3
 HCPP-310* Health Database Design 1
 HCPP-350 Health Access Database Design
 HCPP-370 Health Care Data Modeling
 HRSC-320 Health Record Science 2
 STAT-220 Statistics

Semester 5:

CDAB-360 Data Classification 4
 HCPP-360 Health Oracle Queries
 HCPP-380 Healthcare Systems Analysis
 QUAL-350 Quality Management
 RSCH-350 Research & Epidemiology

Semester 6:

PRAC-394 Practicum 2 – HIM

St. Lawrence College

Program Name **Health Information Management**

CONTACT INFORMATION

Department	School of Health and Science
Faculty	N/A
Program Contact Name	Rose Bell, Associate Dean, School of Health Sciences
Telephone	613-544-5400, ext. 1132
Email	mbell@sl.on.ca
Street	100 Portsmouth Avenue
City	Kingston
Province	ON
Postal Code	K7L 5A6

PROGRAM INFORMATION

Program Academic Level	Undergraduate
Program Comprehensiveness	Full Program
Program Delivery	Onsite
Program Attendance	Onsite Only
Program Typical Duration	44 weeks
Credential Awarded	Diploma D Diploma in Health Information Management
Type of Professional Produced by Program List Standard Types (e.g., AHI, RDHI, CHI, HIM, hybrids, ...)	Health Information Practitioner
Type of Role(s) Addressed by Program List Standard Specific Roles (e.g., CIO, Internal ...)	Educates Health Information Management Professionals to maintain the integrity and confidentiality of personal health information and to work in the collection, analysis and organization of health data used by clinical practitioners, researchers and technology developers.
Candidate Pre-requisites for Program	Ontario Secondary School Diploma or equivalent, with the following prerequisites: <ul style="list-style-type: none"> • Grade 11 or 12 Biology at the C or U level • Grade 11 or 12 Math at the C or U level • Basic computer literacy
Co-op Availability or Requirement	Practicum
Program Cost	\$5,390.14 (includes compulsory fees)
Program Registration Due Date	February
Program Website	http://www.stlawrencecollege.ca/index.aspx?PageID=139&iMenuID=6&progId=460
Program Admissions Requirement Link	http://www.stlawrencecollege.ca/index.aspx?PageID=139&iMenuID=6&progId=460
Program Application Link	http://www.stlawrencecollege.ca/index.aspx?PageID=54&iMenuID=6&iCurrID=11
Comments on Program	This program is recognized by the Canadian Health Information Management Association (CHIMA). Graduates are eligible to write the national certification exam administered by CHIMA.

PROGRAM CURRICULUM

Program Curriculum Information Link <http://www.stlawrencecollege.ca/index.aspx?IPageID=139&IMenuID=6&progrId=460>

Program Courses

<p>Semester 1: BIOL 1100 Anatomy & Physiology BIOL 1200 Pathophysiology I TERM 1100 Medical Terminology COCL 1000 Introduction to Coding & Classification Systems HICO 1100 Introduction to Computers HISC 1100 Health Information Science I HIMA 1100 Mathem COMM 1100 Buisness Communications HIPR 1100 Practicum GEN ED</p>	<p>Semester 2: BIOL 1250 Pathophysiology II BIOL 1160 Anatomy and Physiology II TERM 1350 Medical Terminology II COCL 1100 Coding & Classification Systems I EHIM 1100 Electronic Health Information Management HLTH 1100 Health Care in Canada HICO 1200 Intro to Health Information Computer HISC 1200 Health Information Science II HIPR 1200 Practicum</p> <p>Semester 3 COCL 1200 Coding & Classification Systems II HIDS 1100 Decision/Support/Utilization HIMP 1100 Certification Exam Preparation HIPR 1300 Practicum III HIQM 1100 Quality Management in Health Care HISC 1300 Health Information Science III</p>
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FACULTY ASSOCIATED WITH PROGRAM

	Last Name	First Name	Department	Faculty	Rank	Credentials	Research Expertise
Full-Time Dedicated to Program	Piribauer	Jane	Health Sciences				
Part-Time Dedicated to Program	Curtis	Lucy	Health Sciences				
	Hotner	Jane	Health Sciences				
	Scott	Abigail	Health Sciences				

University of Toronto

Program Name Health Informatics

CONTACT INFORMATION

Department	Health Policy, Management, and Evaluation
Faculty	Medicine
Program Contact Name	Amber Gertzbein
Telephone	416-946-3486
Email	mhi_hpme@utoronto.ca
Street	155 College St., 4th Floor
City	Toronto
Province	ON
Postal Code	M5T 3M6

PROGRAM INFORMATION

Program Academic Level	Graduate
Program Comprehensiveness	Full Program
Program Delivery	Onsite
Program Attendance	Onsite Only
Program Typical Duration	16 month full-time
Credential Awarded	Master's Degree MHI Master of Health Informatics
Type of Professional Produced by Program List Standard Types (e.g., AHI, RDHI, CHI, HIM, hybrids, ...)	Business system analysts and computer, information or systems engineering specialists; Health services providers in all disciplines, Private sector managers and consultants
Type of Role(s) Addressed by Program List Standard Specific Roles (e.g., CIO, Internal ...)	The program prepares graduates to: analyze, implement, manage and evaluate information and communication technologies; facilitate decision making; and drive policy.
Candidate Pre-requisites for Program	an appropriate four year undergraduate degree*, or its equivalent, from a recognized university, and demonstrated English language proficiency.
Co-op Availability or Requirement	Availability
Program Cost	Yearly Tuition: \$9300
Program Registration Due Date	01-Mar
Program Website	http://www.hpme.utoronto.ca/about/pp/mhi.htm
Program Admissions Requirement Link	http://www.hpme.utoronto.ca/about/pp/mhi/admission.htm
Program Application Link	http://www.hpme.utoronto.ca/about/pp/mhi/apply.htm
Comments on Program	

PROGRAM CURRICULUM

Program Curriculum Information Link	http://www.hpme.utoronto.ca/about/pp/mhi/courses.htm
Program Courses	<p>HAD5010H: Canada's Health System and Health Policy - Part 1 HAD5728H: Performance Measurements in Healthcare: Theory and Application INF1003H: Information Systems, Services INF1341H: Analyzing Information Systems INF2183H: Knowledge Management and Systems MHI1001H: Introduction to Information and Communication Technology for Healthcare MHI1002H: Complexity of Clinical Care for Non-Clinicians MHI2001H: Health Informatics I MHI2002H: Health Informatics II MHI2003H: Consumer Health Informatics and Public Health Informatics MHI2004H: Human Factors and Change Management in Health Services MHI2005Y: Health Informatics Practicum MHI2006H: Advanced Topics in eHealth Innovation (Health and Clinical Information Systems) MHI2007H: Quantitative Skills in Health Informatics MHI2008H: Project Management for Health Informatics MHI3000H: Evaluation for Health Informatics</p>

SURVEY OF HEALTH INFORMATICS PROGRAMS IN CANADA

FACULTY ASSOCIATED WITH PROGRAM							
	Last Name	First Name	Department	Faculty	Rank	Credentials	Research Expertise
Full-Time Dedicated to Program	Cafazzo	Joseph	Health Policy, Management and Evaluation	Medicine	Assistant Professor	MHSc, Ph.D	Health informatics/e-health, technology assessment, human factors, the hospital-at-home, the personal health record (PHR)
	Eysenbach	Gunther	Health Policy, Management and Evaluation	Medicine	Professor	MD, MPH	Consumer health informatics, population health technology, usability of ehealth systems, electronic and Open Access publishing, knowledge synthesis and knowledge translation
	Shachak	Aviv	Health Policy, Management and Evaluation	Medicine	Assistant Professor	MSc, Ph.D	Medical decision-making, health informatics/e-Health, primary care
	Bird-Gayson	Twylla	Health Policy, Management and Evaluation	Medicine	Lecturer	MSW, RSW	
	Leonard	Kevin	Health Policy, Management and Evaluation	Medicine	Professor	Ph.D	Information technology, electronic patient record, administrative data, health informatics, communication, education
Full-Time but not Dedicated to Program	Yu	Eric		Information	Assistant Professor	Ph.D	Knowledge and Systems, Knowhow Management, Enterprise Architecture, Software Systems as Social Systems
	Falenchuck	Olesya	Public Policy and Governance	OISE		B.Sc, M.Ed, Ph.D	Quantitative and Qualitative research methods
Part-Time Dedicated to Program	Williams	Paul	Health Policy, Management and Evaluation	Medicine	Professor	Ph.D	Health Policy
	Alleyne	Joel	Knowledge Media Design		Lecturer	MIS	Information technology, organizational informatics, healthcare informatics, new media, knowledge medi, and knowledge management.
	Wijer	David	Health Policy, Management and Evaluation		Adjunct	Ph.D.	Program Evaluation for Health Informatics
	Lindsay	Patricia	Health Policy, Management and Evaluation	Medicine	Adjunct	Ph.D.	Performance Measurement in Health
	Stern	Anita	Health Economics and Technology Assessment	Medicine		Ph.D	Health Technology Assessment
	Lyons	Kelly		Information	Assistant Professor	Ph.D	
	Nagle	Lynn	Health Policy, Management and Evaluation		Assistant Professor	MScN, Ph.D	Health informatics/e-health, clinical information systems, change management and end user engagement, health services delivery, performance measurement and program evaluation, knowledge transfer, health care system, nursing and health outcomes
Urowitz	Sarah	Health Policy, Management and Evaluation		Adjunct	Ph.D.	Program Evaluation for Health Informatics	

University of Victoria

Program Name Health Information Science
Computer Science and Health Information Science

CONTACT INFORMATION

Department	School of Health Information Science
Faculty	Human and Social Development
Program Contact Name	Diane Johnston
Telephone	250-721-8576
Email	dianej@uvic.ca
Street	PO Box 3050, STN CSC
City	Victoria
Province	BC
Postal Code	V8W 3P5

PROGRAM INFORMATION

Program Academic Level	Undergraduate
Program Comprehensiveness	Full Program
Program Delivery	Onsite
Program Attendance	Onsite Only
Program Typical Duration	4 Years
Credential Awarded	Bachelor's Degree BSc Bachelor of Science
Type of Professional Produced by Program List Standard Types (e.g., AHI, RDHI, CHI, HIM, hybrids, ...)	All types, specifically targeted for health care delivery
Type of Role(s) Addressed by Program List Standard Specific Roles (e.g., CIO, Internal ...)	All types including the following: consultants, managers, system designers, system analysts and researchers
Candidate Pre-requisites for Program	a) graduation from a secondary school b) successful completion of English 12, Principles of Mathematics 12 and two other 12 level courses designated as "academic" under part (c) of the Humanities and Social Sciences section. Biology 11, Biology 12 and Information Technology 12 are recommended. c) obtain an average of at least 67% on the four subjects in (b)
Co-op Availability or Requirement	Requirement
Program Cost	Tuition for 2 Semesters: \$4,491
Program Registration Due Date	March or October
Program Website	http://hinf.uvic.ca/whatis/whatis.php
Program Admissions Requirement Link	http://hinf.uvic.ca/programs/undgrad/admreq.php
Program Application Link	http://registrar.uvic.ca/undergrad/
Comments on Program	In existence since 1981

SURVEY OF HEALTH INFORMATICS PROGRAMS IN CANADA

PROGRAM CURRICULUM

Program Curriculum Information Link

<http://hinf.uvic.ca/programs/undgrad/modprog.php>

Program Courses

First Year:

CSC 110 Fundamentals of Programming I
 ENGL 115 or 135 (Writing)
 HINF 130 Introduction to Health Information Technology
 *EPHE 141 (Introductory Human Anatomy) or BIOC 102 (Biochemistry and Human Health) or BIOL 150A (Modern Biology) (or B) or BIOL 190A (General Biology I)
 ELECTIVE
 CSC 115 (Fundamentals of Programming II)
 ENGL xxx
 HINF 140 (Introduction to the Canadian Health Care Systems)
 MATH 151 (Finite Mathematics)
 ELECTIVE*

Second Year:

HINF 200 (300)
 HINF 230
 STAT 252
 ELECTIVE
 ELECTIVE
 HINF 201 Database Management and Development for Health Care Systems
 HINF 265 Health Care Delivery Organization
 HINF 280 Biomedical Fundamentals
 ELECTIVE
 ELECTIVE

Year 3

CSC 375 Introduction to Systems Analysis
 HINF 320 Project Management
 HINF 335 Health Information Standards
 HINF 350 Human Aspects of Healthcare Information Systems
 HINF 381 Epidemiology, Population Health and Public Health
 HINF 310 Electronic Records and Decision Support Systems
 HINF 330
 HINF 345 (445) Networks, Interoperability and Systems Security
 HINF 351 (451) Information Technology Procurement
 HINF 371 Clinical Methodologies

Year 4:

HINF 410 Information Management and Technology
 HINF 420 Societal Implications of Information Technology
 HINF 450 Health Information System Design
 HINF 461 System Evaluation and Quality Improvement
 HINF 470 Trends in Health Informatics
 SENIOR ELECTIVE
 SENIOR ELECTIVE
 SENIOR ELECTIVE
 SENIOR ELECTIVE
 SENIOR ELECTIVE

FACULTY ASSOCIATED WITH PROGRAM

	Last Name	First Name	Department	Faculty	Rank	Credentials	Research Expertise
Full-Time Dedicated to Program	Kushniruk	Andre	School of Health Information Science	Human and Social Development	Professor	BSc, BA, MSc, Ph.D	Evaluation of the effects of technology, human-computer interaction in health care and other domains as well as cognitive science
	Brauer	Gerhard	School of Health Information Science	Human and Social Development	Professor	BA, MA, EdD	Pedagogical implications of reading technical works in translation
	Lau	Francis	School of Health Information Science	Human and Social Development			
	Borycki	Elizabeth	School of Health Information Science	Human and Social Development	Assistant Professor	RN, HBScN, MN, PhD	Clinical informatics, organizational change management, health information system implementations, patient safety, project management and information seeking involving health information systems
	Macdonald	Scott	School of Health Information Science	Human and Social Development	Professor	BSc, MA, Ph.D	Substance use and abuse field, role of substance use in injuries, program evaluation, and alcohol policy
	Kuo	Alex	School of Health Information Science	Human and Social Development	Professor	BSc, MBA, PhD	Health data interoperability, health database & data warehousing, data mining application in healthcare, and e-health.
	Roudsari	Abdul	School of Health Information Science	Human and Social Development	Professor	BSc, MSc, Ph.D	eHealth, Telecare, Advanced and intelligent methods for acquisition, processing and interpretation of data from electronic patient records

University of Victoria

Program Name **Health Information Science**

CONTACT INFORMATION

Department	School of Health Information Science
Faculty	Human and Social Development
Program Contact Name	Diane Johnston
Telephone	250-721-8576
Email	dianej@uvic.ca
Street	PO Box 3050, STN CSC
City	Victoria
Province	BC
Postal Code	V8W 3P5

PROGRAM INFORMATION

Program Academic Level	Graduate
Program Comprehensiveness	Full Program
Program Delivery	Onsite and/or Distance
Program Attendance	Onsite and/or Distance
Program Typical Duration	2 years full-time
Credential Awarded	Master's Degree MSc Master of Science
Type of Professional Produced by Program List Standard Types (e.g., AHI, RDHI, CHI, HIM, hybrids, ...)	All types, specifically targeted for health care delivery
Type of Role(s) Addressed by Program List Standard Specific Roles (e.g., CIO, Internal ...)	All types including the following: consultants, managers, system designers, system analysts and researchers
Candidate Pre-requisites for Program	Health and IT professionals with at least one years of work experience in the field and a Bachelor's degree standing from an accredited institution from BC, other Canadian provinces and abroad
Co-op Availability or Requirement	Availability
Program Cost	Tuition for 1 term: \$4,182.06 More info on program cost at: http://web.finance.uvic.ca/tuition/fees.php
Registration Due Date	Depends on desired entry point; vist website at: http://registrar.uvic.ca/grad/continuing/DatesandDeadlines.html
Program Website	http://hinf.uvic.ca/programs/gradprog/index.php
Program Admissions Requirement Link	http://hinf.uvic.ca/programs/gradprog/index.php
Program Application Link	http://registrar.uvic.ca/grad/admission-checklist.html
Comments on Program	

SURVEY OF HEALTH INFORMATICS PROGRAMS IN CANADA

PROGRAM CURRICULUM

Program Curriculum Information Link

<http://hinf.uvic.ca/programs/gradprog/index.php>

Program Courses

HINF 503 - Research Methods in Health Informatics (1.5 units).
 HINF 510 - Health Information Management (1.5 units).
 HINF 511 – Clinical Decision Support Systems (1.5 units).
 HINF 515 - Patient Care Information Systems (1.5 units).
 HINF 516 - Telemedicine in Action (1.5 units). HINF 550 Health Information Systems Design (1.5 units).
 HINF 551 Electronic Health Record (1.5 units).
 HINF 552 Evaluation in e-Health (1.5 units).
 HINF 553 E-Health Sustainability: From Business Case to Policy (1.5 units).
 HINF 554 Critical Appraisal of the Health Sciences Literature (1.5 units).
 HINF 560 Health Care Quality Improvement (1.5 units).

HINF 561 - Project Management in Health Informatics (1.5 units).
 HINF 562 - Procurement in Health Informatics (1.5 units).
 HINF 570 Epidemiology in Health Services Management (1.5 units).
 HINF 571 Health Systems Data Analysis (1.5 units).
 HINF 572 Health Informatics: An Overview Units: 1.5
 HINF 573 Applied Biostatistics Units: 1.5
 HINF 575 - Human Factors in Healthcare (1.5 units).
 HINF 580 HI Graduate Seminar (1.5 units).
 HINF 590 Directed Study (1.5 units).
 HINF 591 Topics in HI (1.5 units).

 HINF 598 Research Project (3.0 units).
 HINF 599 Thesis (6.0)

FACULTY ASSOCIATED WITH PROGRAM

	Last Name	First Name	Department	Faculty	Rank	Credentials	Research Expertise
Full-Time Dedicated to Program	Kushniruk	Andre	School of Health Information Science	Human and Social Development	Professor	BSc, BA, MSc, Ph.D	Evaluation of the effects of technology, human-computer interaction in health care and other domains as well as cognitive science
	Protti	Denis	School of Health Information Science	Human and Social Development	Professor	FACMI	Health Care Information, Management & Technology Strategic Planning Chief Information Officer, Electronic Records in Health Care, Evaluation of Information, Management & Technology.
	Brauer	Gerhard	School of Health Information Science	Human and Social Development	Professor	BA, MA, EdD	Pedagogical implications of reading technical works in translation
	Lau	Francis	School of Health Information Science	Human and Social Development	Professor		
	Borycki	Elizabeth	School of Health Information Science	Human and Social Development	Assistant Professor	RN, HBScN, MN, PhD	Clinical informatics, organizational change management, health information system implementations, patient safety, project management and information seeking involving health information systems
	Macdonald	Scott	School of Health Information Science	Human and Social Development	Professor	BSc, MA, Ph.D	Substance use and abuse field, role of substance use in injuries, program evaluation, and alcohol policy
	Kuo	Alex	School of Health Information Science	Human and Social Development	Professor	BSc, MBA, PhD	Health data interoperability, health database & data warehousing, data mining application in healthcare, and e-health.
	Roudsari	Abdul	School of Health Information Science	Human and Social Development	Professor	BSc, MSc, Ph.D	eHealth, Telecare, Advanced and intelligent methods for acquisition, processing and interpretation of data from electronic patient records

University of Victoria

Program Name Nursing and Health Information

CONTACT INFORMATION

Department	Schools of Nursing and Health Information Science
Faculty	Human and Social Development
Program Contact Name	Elizabeth Borycki
Telephone	250-472-5432
Email	emb@uvic.ca
Street	PO Box 1700 STN CSC
City	Victoria
Province	BC
Postal Code	V8W 2Y2

PROGRAM INFORMATION

Program Academic Level	Graduate
Program Comprehensiveness	Full Program
Program Delivery	Synchronous Distance
Program Attendance	Onsite and/or Distance
Program Typical Duration	3 years full-time
Credential Awarded	Master's Degree MN & MSc Master of Nursing and Master of Science
Type of Professional Produced by Program List Standard Types (e.g., AHI, RDHI, CHI, HIM, hybrids, ...)	Health and Nursing Informatics Professional
Type of Role(s) Addressed by Program List Standard Specific Roles (e.g., CIO, Internal ...)	Graduates will be prepared to take leadership roles in informatics, telehealth, implementation of electronic health care records and other areas of emerging health technology.
Candidate Pre-requisites for Program	Students entering the double degree program in Nursing and Informatics must have completed an introductory statistics course within five years prior to admission with a grade of B or above. The UVIC NURS 425 Quantitative and Qualitative Analysis (available on line) or an equivalent data analysis or introductory statistics would meet this requirement.
Co-op Availability or Requirement	Requirement
Program Cost	Tuition per term: \$3,333.34 More program cost information at: http://web.finance.uvic.ca/tuition
Registration Due Date	December 1
Program Website	http://nursing.uvic.ca/graduate/DoubleDegrees/Overview.php
Program Admissions Requirement Link	http://nursing.uvic.ca/prospective/documents/NURSHINF_ApplicationGuidelines_2010_2_2_.pdf . http://hinf.uvic.ca/programs/gr
Program Application Link	http://nursing.uvic.ca/prospective/documents/NURSHINF_ApplicationGuidelines_2010_2_2_.pdf
Comments on Program	

SURVEY OF HEALTH INFORMATICS PROGRAMS IN CANADA

PROGRAM CURRICULUM

Program Curriculum Information Link <http://nursing.uvic.ca/graduate/DoubleDegrees/DDCourseDescriptions.php>

Program Courses

Required Core APN Courses (6.0 units)

NURS 506: Philosophical Knowledge and Advanced Practice Nursing (1.5 units)
 NURS 507: Theoretical Knowledge and Advanced Practice Nursing (1.5 units)
 NURS 508: Methodological Knowledge and Advanced Practice Nursing (1.5 units)
 NURS 565: Trends and Issues in Advanced Practice Nursing (One) (0.5 Units)
 NURS 566: Trends and Issues in Advanced Practice Nursing (Two) (0.5 Units)
 NURS 567: Trends and Issues in Advanced Practice Nursing (Three) (0.5 Units)
 Nursing Electives (3.0 units)

Required Core HINF Courses

HINF 501 (1.5) Database Design
 HINF 503 (1.5) Research Methods in Health Informatics
 HINF 550 (1.5) Health Information Systems Design
 HINF 572 (1.5) Health Informatics: An Overview

HINF Electives (3.0)

Electives are chosen in consultation with the supervisors. HINF electives include:
 HINF 510 (1.5) Information Management and Technology
 HINF 511 (1.5) Clinical Decision Support Systems
 HINF 531 (1.5) Ethical and Legal Aspects of Health Informatics
 HINF 551 (1.5) Electronic Health Record
 HINF 560 (1.5) Health Care Quality Improvement
 HINF 561 (1.5) Project Management in Health Informatics
 HINF 562 (1.5) Procurement in Health Informatics
 HINF 573 (1.5) Applied biostatistics
 HINF 575 (1.5) Human Factors in Healthcare

Required COOP Experiences

COOP (NURS) (3.0) Cooperative Experience Requirement
 COOP (HINF) (3.0) Cooperative Experience Requirement
 Thesis
 NURS 593 or HINF 580 (1.5) Thesis Seminar
 NUHI 599 (6.0) Thesis

FACULTY ASSOCIATED WITH PROGRAM

	Last Name	First Name	Department	Faculty	Rank	Credentials	Research Expertise
Full-Time Dedicated to Program	Kushniruk	Andre	School of Health Information Science	Human and Social Development	Professor	BSc, BA, MSc, Ph.D	Evaluation of the effects of technology, human-computer interaction in health care and other domains as well as cognitive science
	Protti	Denis	School of Health Information Science	Human and Social Development	Professor Emeritus FACMI		Health Care Information, Management & Technology Strategic Planning Chief Information Officer, Electronic Records in Health Care, Evaluation of Information, Management & Technology.
	Moehr	Jochen	School of Health Information Science	Human and Social Development	Professor Emeritus MD, Ph.D		Decision Support Systems, Factual Information Systems, Hospital Information Systems, Doctor's Office Information Systems, Distributed Information Systems, Systems Engineering in Health Care Information Systems, Evaluation of Information Needs, Design- and Construction Principles.
Part-Time Dedicated to Program	Brauer	Gerhard	School of Health Information Science	Human and Social Development	Professor	BA, MA, EdD	Pedagogical implications of reading technical works in translation
	Lau	Francis	School of Health Information Science	Human and Social Development			
	Borycki	Elizabeth	School of Health Information Science	Human and Social Development	Assistant Professor	RN, HBScN, MN, PhD	Clinical informatics, organizational change management, health information system implementations, patient safety, project management and information seeking involving health information systems
	Macdonald	Scott	School of Health Information Science	Human and Social Development	Professor	BSc, MA, Ph.D	Substance use and abuse field, role of substance use in injuries, program evaluation, and alcohol policy
	Kuo	Alex	School of Health Information Science	Human and Social Development	Professor	BSc, MBA, PhD	Health data interoperability, health database & data warehousing, data mining application in healthcare, and e-health.
	Roudsari	Abdul	School of Health Information Science	Human and Social Development	Professor	BSc, MSc, Ph.D	eHealth, Telecare, Advanced and intelligent methods for acquisition, processing and interpretation of data from electronic patient records

PROGRAM CURRICULUM

Program Curriculum Information Link

<http://hinf.uvic.ca/programs/gradprog/documents/GraduateProgramHandbookforCurrentandProspectiveStudents.pdf>

Program Courses

COURSE DESCRIPTIONS

- | | |
|---|--|
| <p>HINF 501 Database Design (1.5 units).
 HINF 503 Research Methods in Health Informatics (1.5 units).
 HINF 510 Health Information Management (1.5 units).
 HINF 511 Clinical Decision Support Systems (1.5 units).
 HINF 515 Clinical Information Systems (1.5 units).
 HINF 516 Telemedicine in Action (1.5 units).
 HINF 530 Health Informatics Literature Review (1.5 units).
 HINF 531 Ethical and Legal Aspects of Health Informatics (1.5 units).
 HINF 535 Health Information Standards (1.5 units).
 HINF 550 Health Information Systems Design (1.5 units).
 HINF 551 Electronic Health Record (1.5 units).
 HINF 552 Evaluation in e-Health (1.5 units).
 HINF 553 e-Health Sustainability (1.5 units).
 HINF 554 Critical Appraisal of the Health Sciences Literature (1.5 units).</p> | <p>HINF 560 Health Care Quality Improvement (1.5 units).
 HINF 561 Project Management in Health Informatics (1.5 units).
 HINF 562 Procurement in Health Informatics (1.5 units).
 HINF 570 Epidemiology in Health Services Management (1.5 units).
 HINF 571 Health Systems Data Analysis (1.5 units).
 HINF 572 Health Informatics: An Overview (1.5 units).
 HINF 573 Applied Biostatistics (1.5 units).
 HINF 575 Human Factors in Healthcare (1.5 units).
 HINF 580 Health Informatics Graduate Seminar (1.5 units).
 HINF 590 Directed Study (1.5 units).
 HINF 591 Topics in Health Informatics (1.5 units).
 HINF 598 Research Project (3.0 units).
 HINF 599 Health Informatics Thesis (6.0 units).</p> |
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University of Waterloo

Program Name Health Informatics Option in Health Studies

CONTACT INFORMATION

Department	Health Studies and Gerontology
Faculty	Applied Health Sciences
Program Contact Name	Amanda Connolly Recruitment Co-ordinator, Applied Health Sciences
Telephone	519-888-4567, ext. 36220
Email	ahsinfo@uwaterloo.ca
Street	200 University Ave. W.
City	Waterloo
Province	ON
Postal Code	N2L 3G1

PROGRAM INFORMATION

Program Academic Level	Undergraduate
Program Comprehensiveness	Option
Program Delivery	Onsite
Program Attendance	Onsite Only
Program Typical Duration	4 -5 Years
Credential Awarded	Bachelor's Degree BSc Bachelor of Science
Type of Professional Produced by Program List Standard Types (e.g., AHI, RDHI, CHI, HIM, hybrids, ...)	Health Professional, Information Technology Professional
Type of Role(s) Addressed by Program List Standard Specific Roles (e.g., CIO, Internal Consultant, Teacher, Researcher, etc., all)	Application of information technology to all aspects of applied health research and practice, including clinical practice, health promotion and disease prevention, delivery of health services, and health policy development
Candidate Pre-requisites for Program	Secondary School Required courses 6 Grade 12 U or M courses, including: 12U Biology (SBI4U) & 12U Chemistry (SCH4U) with a minimum final grade of 70% in each required course Admission average(s) Health Studies Regular: Low 80s Health Studies Co-op: Mid 80
Co-op Availability or Requirement	Availability
Program Cost	Tuition Fee Per Term: \$2 600 plus incidental fees More program cost information at: http://www.adm.uwaterloo.ca/infopin/students/Fee_Schedules.html
Registration Due Date	Ontario high school students must apply by January 12, 2011. All other full-time undergraduate applicants must apply by March 31, 2011.
Program Website	http://www.ahs.uwaterloo.ca/prospective/hlth/healthinformatics.html
Program Admissions Requirement Link	http://www.ahs.uwaterloo.ca/prospective/hlth/admissions.html
Program Application Link	http://www.findoutmore.uwaterloo.ca/admissions/applying.php
Comments on Program	

PROGRAM CURRICULUM

Program Curriculum Information Link	http://ugradcalendar.uwaterloo.ca/page/AHS-Health-Informatics-Option
Program Courses	<p>Students are required to complete 3.5 units from the following Health Informatics clusters:</p> <p>A1. Management A2. Computer Science and Technology A3. Socioeconomic aspects of Health Information A4. Multidisciplinary seminar in Health Informatics</p> <p>(A1) Management 0.5 unit: BUS 111W: Introduction to Business Organization (WLU) or AFM 131 Introduction to Business in North America</p> <p>(A2) Computer Science & Technology 1.0 unit: CS 100 Introduction to Computing through Applications /200 Concepts for Advanced Computer Usage or CS 115 Introduction to Computer Science 1 /116 Introduction to Computer Science 2</p> <p>(A3) Socioeconomic aspects of Health Information 0.5 unit: STV 100 Society, Technology and Values: Introduction , STV 202 Design and Society , STV 205 Cybernetics and Society, ECON 101 Introduction to Microeconomics</p> <p>(A4) Multidisciplinary seminar in Health Informatics 0.5 unit: HLTH 451 Analysis and Management of Health Information in Aging Populations HLTH 452 Decision Making and Decision Support in Health Informatics HLTH 472 Multidisciplinary Seminar in Health Informatics approved by Associate Chair, Undergraduate Studies HLTH 473 Contemporary Issues in Health - Health Informatics topic approved by Associate Chair, Undergraduate Studies</p> <p>(A5) 1.0 additional unit from: CS 330 Management Information Systems, CS 432 Business Systems Analysis or additional courses from any of list A3 or A4.</p>

SURVEY OF HEALTH INFORMATICS PROGRAMS IN CANADA

FACULTY ASSOCIATED WITH PROGRAM							
	Last Name	First Name	Department	Faculty	Rank	Credentials	Research Expertise
Full-Time Dedicated to Program	Arocha	Jose F.	Health Studies and Gerontology	Applied Health Sciences	Associate Professor	Lic, MA, Ph.D	Consumer health informatics, clinical problem solving, reasoning, and decision making, cognitive methodologies for the analysis of human computer interaction, knowledge acquisition, medical expertise, cognitive aspects of computerized clinical practice guidelines
	Hirdes	John	Health Studies and Gerontology	Applied Health Sciences	Professor	BSc, MA, Ph.D	Health Informatics, Gerontology
	Stolee	Paul	Health Studies and Gerontology	Applied Health Sciences	Associate Professor	BA, MPA, M.Sc, Ph.D	Geriatric health services, rehabilitation, long-term care, home care, health information systems and databases, health outcome measurement, optometric practice, and the integration and use of knowledge and information in practice
Full-Time but not Dedicated to Program	McKillop	Ian	Health Studies and Gerontology	Applied Health Sciences	Associate Professor	BIS, MAsc, Ph.D	Information Systems Security, Catastrophic Disaster planning, Decision support systems
	Cameron	Roy	Health Studies and Gerontology	Applied Health Sciences	Professor	MA, Ph.D	Tobacco control and developing the science of population intervention
	Hammond	David	Health Studies and Gerontology	Applied Health Sciences	Assistant Professor	BA, MSc, Ph.D	Population Health, tobacco control, risk communication, health policy evaluation, and smoking cessation.
	Hanning	Rhona	Health Studies and Gerontology	Applied Health Sciences	Associate Professor	BAsc, Ph.D	Nutritional and Dietary Assessment, Childhood obesity, Aboriginal Health, Surveillance
	McDonald	Paul	Health Studies and Gerontology	Applied Health Sciences	Professor	BA, MA, Ph.D	Planning, design and testing of population interventions (policy, communication, education, services) for chronic disease prevention, especially cardiovascular disease, cancer and respiratory disease; building capacity for knowledge exchange; building research capacity for population and public health; evidence informed decision making; tobacco control, especially smoking cessation.
	Manske	Steve	Health Studies and Gerontology	Applied Health Sciences	Associate Professor	EdD, MSc	Promoting youth health, with a goal of supporting communities to pinpoint best opportunities to improve youth health, identify best intervention approaches and access intervention resources

University of Waterloo

Program Name Health Informatics

CONTACT INFORMATION

Department	David R. Cheriton School of Computer Science
Faculty	Mathematics
Program Contact Name	Sheila McConnell
Telephone	519-888-4567 ext. 33203
Email	mhi@cs.uwaterloo.ca
Street	200 University Ave. W.
City	Waterloo
Province	ON
Postal Code	N2L 3G1

PROGRAM INFORMATION

Program Academic Level	Graduate
Program Comprehensiveness	Full Program
Program Delivery	Onsite
Program Attendance	Onsite Only
Program Typical Duration	3 terms without co-op, 4 terms with co-op
Credential Awarded	Master's Degree MHI Master of Health Informatics
Type of Professional Produced by Program List Standard Types (e.g., AHI, RDHI, CHI, HIM, hybrids, ...)	Health Informatics Professional
Type of Role(s) Addressed by Program List Standard Specific Roles (e.g., CIO, Internal Consultant, Teacher, Researcher, etc., all)	Integration Analysts, Solution Architecture Leads, Information Technology Directors, Chief Privacy Officers
Candidate Pre-requisites for Program	The minimum requirements for admission to the MHI program: <ul style="list-style-type: none"> • Successful completion of a four-year undergraduate degree from a recognized university with a specialization in computer science, software engineering, information systems, systems design engineering, or equivalent • An overall 78% average in undergraduate work • Three letters of reference, normally from academic sources • Proof of competency in English
Co-op Availability or Requirement	Availability
Program Cost	\$12,150 per year More program cost information at: http://www.cs.uwaterloo.ca/grad/mhi/
Registration Due Date	December 15 for Fall start
Program Website	http://www.cs.uwaterloo.ca/grad/mhi/
Program Admissions Requirement Link	http://www.cs.uwaterloo.ca/grad/mhi/
Program Application Link	http://www.cs.uwaterloo.ca/grad/admissions/applications
Comments on Program	Even though the program is designed for full-time enrolment, we will consider part-time applicants on a case-by-case basis. With part-time studies, students can take one class per term.

PROGRAM CURRICULUM

Program Curriculum Information Link	http://www.cs.uwaterloo.ca/grad/mhi/#HSG
Program Courses	<p>Required Courses:</p> <ul style="list-style-type: none"> • HSG 611 - The Health Care System • CS792 - Health Informatics I - Data Structures and Standards • CS793 - Health Informatics II - Application Domains • CS640 - Principles of Database Management and Use • CS645 - Software Requirements Specification and Analysis • CS655 - System and Network Architectures and Implementation • STAT 631 - Introduction to Statistical Methods in Health Informatics

SURVEY OF HEALTH INFORMATICS PROGRAMS IN CANADA

FACULTY ASSOCIATED WITH PROGRAM							
	Last Name	First Name	Department	Faculty	Rank	Credentials	Research Expertise
Full-Time but not Dedicated to Program	Atlee	Joanne	Computer Science	Mathematics	Associate Professor	BSc, MSc, Ph.D	Software specification, requirements, composition, model checking, feature interactions, software engineering education and professionalism
	Baranoski	Gladmi	Computer Science	Mathematics	Associate Professor	BSc, MSc, Ph.D	Predictive simulation of light interactions with organic materials and the biophysically-based rendering of natural phenomena
	Ben-David	Shai	Computer Science	Mathematics	Professor	BSc, MSc, Ph.D	Foundations of computer science and its applications, with a particular emphasis on statistical and computational machine learning
	Chen	Helen	Health Studies and Gerontology	Applied Health Sciences	Assistant Professor	BSc, MSc, Ph.D	Ontology Modeling and Mapping in Healthcare Domain, Decision Support in Healthcare Information Systems, Semantic web technology
	Cowan	William	Computer Science	Mathematics	Associate Professor	BSc, Ph.D	Interactive Computer Graphics, user Interfaces
	DiMarco	Chrysanne	Computer Science	Mathematics	Associate Professor	BSc, MSc, Ph.D	Development of computational models of natural language pragmatics for use in such applications as natural language generation, text analysis, and bioinformatics
	Hoey	Jesse	Computer Science	Mathematics		BSc, MSc, Ph.D	
	Lank	Edward	Computer Science	Mathematics	Assistant Professor	BSc, Ph.D	Pen-computing, specifically working with tablet computers, electronic whiteboards, and handheld computers such as Personal Digital Assistants (PDAs)
	McKillop	Ian	Health Studies and Gerontology	Applied Health Sciences	Associate Professor	BIS, MAsc, Ph.D	Information Systems Security, Catastrophic Disaster planning, Decision support systems
	Orchard	Jeff	Computer Science	Mathematics	Assistant Professor	Bmath, MSc, Ph.D	, Applying mathematics to visual data, Medical imaging, remote sensing, and forensic science
	Ozsu	Tamer	Computer Science	Mathematics	Professor	BSc, MSc, Ph.D	Distributed data management, multimedia databases, and XML management.
	Pidduck	Anne	Computer Science	Mathematics	Lecturer	BAsc, MAsc, Ph.D	Information systems management, software engineering and electronic commerce
	Poupart	Pascal	Computer Science	Mathematics	Assistant Professor	BSc, MSc, Ph.D	Artificial intelligence and more precisely in the areas of reasoning under uncertainty and machine learning, with application to health informatics and natural language processing
	Terry	Michael	Computer Science	Mathematics	Assistant Professor	BS, MS, Ph.D	Human Computer Interactions
	Tomba	Frank	Computer Science	Mathematics	Professor	ScB, ScM, Ph.D	Data structures and databases
	Wan	Justin	Computer Science	Mathematics	Associate Professor	BSc, MSc, Ph.D	Scientific computing with interests in developing efficient numerical techniques for solving large sparse linear systems arising from partial differential equation modeling, scalable algorithms on multi-core processing architectures.

York University

Program Name Health Informatics

CONTACT INFORMATION

Department	School of Health Policy & Management
Faculty	Health
Program Contact Name	Prof. Serban Dinca
Telephone	416-736-5157
Email	serband@yorku.ca shpm@yorku.ca
Street	4700 Keele Street
City	Toronto
Province	ON
Postal Code	M3J 1P3

PROGRAM INFORMATION

Program Academic Level	Undergraduate
Program Comprehensiveness	Full Program
Program Delivery	Onsite
Program Attendance	Onsite Only
Program Typical Duration	4 Years
Credential Awarded	Bachelor's Degree BHS Bachelor of Health Studies
Type of Professional Produced by Program	Health Informatics Professional
Type of Role(s) Addressed by Program	Health Information Specialist, Systems Designer, Systems Integration Specialist More career options at: http://www.yorku.ca/health/shpm/careers_informatics
Candidate Pre-requisites for Program	*an Secondary School Diploma and a minimum of six Grade 12 4U or 4M courses, including ENG4U (Francophone applicants can present FRA4U, FEF4U or FIF4U instead of ENG4U) *mid 70s
Co-op Availability or Requirement	No
Program Cost	Yearly Full Courseload: \$6,003.30 More program cost info at: http://sfs.yorku.ca/fees/courses/index.php?term=fw10&facul
Registration Due Date	January for Fall term October for Winter term March for Summer term
Program Website	http://www.yorku.ca/health/shpm/informatics.html
Program Admissions Requirement Link	http://futurestudents.yorku.ca/requirements
Program Application Link	http://futurestudents.yorku.ca/future_students
Comments on Program	

SURVEY OF HEALTH INFORMATICS PROGRAMS IN CANADA

PROGRAM CURRICULUM

Program Curriculum Information Link

http://calendars.registrar.yorku.ca/calendars/2010-2011/faculty_programs/HH/health_studies.htm

Program Courses

Core Courses (36 credits)

AP/ECON 1000 3.00 Introduction to Microeconomics
 HH/HLST 1000 6.00 Introduction to Health Studies or HH/HLST 1010 3.00
 Foundations of Health Studies I and HH/HLST 1011 3.00 Foundations of Health
 Studies II: Health on the Front Lines. Life and Death in the Emergency
 Department
 HH/HLST 2020 3.00 Health Policy: Power and Politics
 HH/HLST 2030 3.00 Health Management 1: Essentials of Health Care
 Management
 HH/HLST 2040 3.00 Health Informatics 1: Introduction to Health Informatics
 AP/ADMS 2300 6.00 Quantitative Research Methods in Health Studies
 HH/HLST 3010 3.00 Social Determinants of Health
 AP/ECON 3510 3.00 Health Economics
 HH/HLST 4000 3.00 Health Care Law
 HH/HLST 4010 3.00 Health Care Ethics: Policy and Management Perspectives

Health Informatics Courses (30 credits)

AP/ITEC 1000 3.00 Introduction to Information Technologies
 AP/ITEC 1620 3.00 Object-Based Programming
 HH/HLST 3310 3.00 Electronic Health Record or HH/NURS 3240 3.00
 Electronic Data Systems: An Analytical Examination of Human Caring
 and Technology
 HH/HLST 3320 3.00 Health Database Applications
 HH/HLST 3341 3.00 Health Informatics II: Health Information Systems
 HH/HLST 4200 6.00 Applied Research Approaches in Health Studies:
 Advanced Seminar
 HH/HLST 4310 3.00 Analysis and Design of Health Information Systems
 or AP/ITEC 3010 3.00 Systems Analysis and Design I
 HH/HLST 4320 3.00 ehealth
 HH/HLST 4330 3.00 Decision Making and Decision Support Systems in
 Healthcare

FACULTY ASSOCIATED WITH PROGRAM

	Last Name	First Name	Department	Faculty	Rank	Credentials	Research Expertise
Full-Time Dedicated to Program	Dinca	Serban	School of Health Policy and Management			PhD	

York University

Program Name Health Industry Specialization in Information Technology

CONTACT INFORMATION

Department	School of Information Technology
Faculty	Liberal Arts and Professional Studies
Program Contact Name	Professor R.Campeanu
Telephone	416-736-2100 (ext.40797)
Email	campeanu@yorku.ca itec@yorku.ca
Street	4700 Keele Street
City	Toronto
Province	ON
Postal Code	M3J 1P3

PROGRAM INFORMATION

Program Academic Level	Undergraduate
Program Comprehensiveness	Specialization
Program Delivery	Onsite
Program Attendance	Onsite Only
Program Typical Duration	3 or 4 year
Credential Awarded	Bachelor's Degree BA Bachelor of Arts
Type of Professional Produced by Program List Standard Types (e.g., AHI, RDHI, CHI, HIM, hybrids, ...)	Health Informatics Professional
Type of Role(s) Addressed by Program List Standard Specific Roles (e.g., CIO, Internal Consultant, Teacher, Researcher, etc., all)	Information Specialist, Database Administrator, Complex Systems Designer, IT Director of Operations
Candidate Pre-requisites for Program	*an Secondary School Diploma and a minimum of six Grade 12 4U or 4M courses, including ENG4U (Francophone applicants can present FRA4U, FEF4U or FIF4U instead of ENG4U) *mid 70s
Co-op Availability or Requirement	No
Program Cost	Yearly Full Courseload: \$6,003.30 More program cost info at: http://sfs.yorku.ca/fees/courses/index.php?term=fw10&faculty=Liberal%2BArts%2B%2526amp%2538%2BProfessional%2BStudies
Registration Due Date	January for Fall term October for Winter term March for Summer term
Program Website	http://www.yorku.ca/laps/itec/programs.html
Program Admissions Requirement Link	http://futurestudents.yorku.ca/requirements
Program Application Link	http://futurestudents.yorku.ca/future_students
Comments on Program	

PROGRAM CURRICULUM

Program Curriculum Information Link

http://calendars.registrar.yorku.ca/calendars/2010-2011/faculty_programs/AP/info_technology_ba.htm

Program Courses

(i) Core:

- AP/ITEC 1000 3.00; Introduction to Information Technologies
- AP/ITEC 1010 3.00; Information and Organizations
- AP/ITEC 1620 3.00; Object-Based Programming
- AP/ADMS 2511 3.00; Management Information Systems
- AP/ITEC 2610 3.00; Object-Oriented Programming
- AP/ITEC 2620 3.00; Introduction to Data Structures
- AP/ITEC 3010 3.00; Systems Analysis and Design I
- AP/ITEC 3020 3.00; Web Technologies
- AP/ITEC 3210 3.00; Applied Data Communications and Networks
- AP/ITEC 3220 3.00; Using and Designing Database Systems
- AP/ITEC 3230 3.00; Designing User Interfaces
- AP/ITEC 4010 3.00; Systems Analysis and Design II
- AP/ITEC 4020 3.00; Internet Client-Server Systems
- AP/ITEC 4030 3.00; Business Process Management Systems
- AP/ITEC 4040 3.00; Requirements Management
- AP/ITEC 4220 3.00; Modern Approaches to Data Management: Database Management Systems
- and 12 additional credits from AP/ADMS 3521 3.00 Management of Electronic Commerce Systems, AP/ITEC 3325 3.00 Decision Support Technologies, AP/ITEC 3500 3.00 Information Technology Risk Management, AP/ITEC 3505 3.00 Information Technology Project Management, AP/ITEC 4000 3.00 Independent Research Project in Information Technology, AP/ITEC 4100 3.00 Topics in Information Technology, AP/ITEC 4101 3.00, AP/ITEC 4305 3.00 Web Mining, AP/ITEC 4315 3.00.

Health Industry Stream

- (i) Information technology core.
- (ii) 12 additional credits chosen from:
 - HH/HLST 2040 3.00; Health Informatics 1: Introduction to Health Informatics
 - HH/HLST 3320 3.00; Health Database Applications
 - HH/HLST 3341 3.00; Health Informatics II: Health Information Systems
 - HH/HLST 4320 3.00; eHealth
 - HH/HLST 4330 3.00; Decision Making and Decision Support Systems in Healthcare
 - HH/NURS 3200 3.00; Decision Making and Decision Support Systems in Healthcare
 - HH/NURS 3210 3.00; Societal Implications of Health Informatics
 - HH/NURS 3220 3.00;
 - HH/NURS 3230 3.00.

FACULTY ASSOCIATED WITH PROGRAM

	Last Name	First Name	Department	Faculty	Rank	Credentials	Research Expertise
Full-Time Dedicated to Program	Campeanu	Radu	ITEC			PhD	

York University

Program Name **Health Informatics**

CONTACT INFORMATION

Department	School of Health Policy and Management
Faculty	Health
Program Contact Name	School of Health Policy & Management
Telephone	416-736- 5157
Email	shpm@yorku.ca
Street	Room 439 HNES, 4700 Keele Street
City	Toronto
Province	ON
Postal Code	M3J 1P3

PROGRAM INFORMATION

Program Academic Level	Professional
Program Comprehensiveness	Full Program
Program Delivery	Onsite
Program Attendance	Onsite Only
Program Typical Duration	Between 1-2 years
Credential Awarded	Certificate C Certificate in Health Informatics
Type of Professional Produced by Program List Standard Types (e.g., AHI, RDHI, CHI, HIM, hybrids, ...)	Health Informatics Management, Applied Health Informatics
Type of Role(s) Addressed by Program List Standard Specific Roles (e.g., CIO, Internal Consultant, Teacher, Researcher, etc., all)	Health Informatics Manager, Electronic Health Records Manager, Health Systems Developer
Candidate Pre-requisites for Program	*This certificate may be taken by students who have community college diplomas or university degrees, concurrently by students in any university degree program, or independently by students who are professionals in the health field.
Co-op Availability or Requirement	No
Program Cost	For 30 credits: \$6,003.30 More program info at: http://sfs.yorku.ca/fees/courses/index.php?term=fw10&faculty=Health
Registration Due Date	January for Fall term October for Winter term March for Summer term
Program Website	http://www.yorku.ca/health/shpm/certificates.html
Program Admissions Requirement Link	http://futurestudents.yorku.ca/requirements
Program Application Link	http://futurestudents.yorku.ca/future_students
Comments on Program	

PROGRAM CURRICULUM

Program Curriculum Information Link http://www.yorku.ca/health/shpm/documents/Hi_Cert_2009.pdf

Program Courses

Core requirements (18 credits):

- AP/ITEC 1000 3.00 Introduction to Information Technologies
- HH/HLST 2040 3.00 Health Informatics 1: Introduction to Health Informatics
- HH/HLST 3310 3.00 Electronic Health Record or HH/NURS 3240 3.00 Electronic Data Systems: An Analytical Examination of Human Caring and Technology
- HH/HLST 4320 3.00 ehealth
- HH/HLST 3320 3.00 or HH/NURS 3230 3.00 or AP/ITEC 3220 3.00 Using and Designing Database Systems
- HH/HLST 4300 3.00 Advanced Seminar in Health Informatics or HH/NURS 4200 3.00 Applied Health Informatics Research

A minimum of 12 credits selected from the following courses:

- AP/ADMS 2511 3.00 Management Information Systems
- HH/HLST 3341 3.00 Health Informatics II: Health Information Systems
- HH/HLST 4310 3.00 or AP/ITEC 3010 3.00 Systems Analysis and Design I
- HH/HLST 4330 3.00 Decision Making and Decision Support Systems in Healthcare
- HH/HLST 4340 3.00 Health Technology Assessment
- AP/ITEC 1620 3.00 Object-Based Programming
- AP/ITEC 1630 3.00
- AP/ITEC 3020 3.00 Web Technologies
- AP/ITEC 3210 3.00 Applied Data Communications and Networks
- AP/ITEC 3230 3.00 Designing User Interfaces
- AP/ITEC 4010 3.00 Systems Analysis and Design II
- AP/ITEC 4040 3.00 Requirements Management
- HH/NURS 3210 3.00 Societal Implications of Health Informatics
- HH/NURS 3220 3.00
- HH/NURS 4210 3.00 Privacy and Security Principles and Applications in Health Care

FACULTY ASSOCIATED WITH PROGRAM

	Last Name	First Name	Department	Faculty	Rank	Credentials	Research Expertise
Full-Time Dedicated to Program	Dinca-Panaiteacu	Serban	School of Health Policy Health and Management				
	Sangiuliano	Nancy	School of Health Policy Health and Management				