HEALTH INFORMATICS, GRADUATE CERTIFICATE

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Credential: Graduate Certificate Field of Study: Health Informatics

Program Overview

Students who want to explore Biomedical and Health Informatics without - or before - committing to a Master's program, can take a series of four or five courses that provide an overview and grounding in the fundamentals with practical applications in research, clinical care and population health. If a student chooses to continue to a Master's program within our department, all courses are transferable. This program can take from one year up to two and a half years to complete, depending on the student's chosen pace.

This 15 credit hour Graduate Certificate is issued through the School of Graduate Studies and will show on an official Case Western Reserve transcript. The department also offers a Departmental Graduate Certificate that does not show on an official Case Western Reserve University transcript. Please review the School of Medicine Program page for additional information.

Graduate Policies

For graduate policies and procedures, please review the School of Graduate Studies section of the General Bulletin.

Program Requirements

Code	Title	Credit Hours	
Required Courses: 6			
PQHS 413	Introduction to Data Structures and Algorithms Python	in	
PQHS 416	Al in medicine: knowledge representation and d learning	еер	
Electives can be selected to tailor a concentration that resonates with a student's interests.			
Code	Title	Credit Hours	
	Title cs Management Concentration		
	cs Management Concentration	Hours	
Health Informati	cs Management Concentration	Hours	
Health Informati	cs Management Concentration	Hours	
Health Informati Choose two of the EBME 473	cs Management Concentration <i>e following:</i> Fundamentals of Clinical Information Systems	Hours	
Health Informati Choose two of the EBME 473 HSMC 412	cs Management Concentration <i>e following:</i> Fundamentals of Clinical Information Systems Lean Services Operations	Hours	
Health Informati Choose two of the EBME 473 HSMC 412 HSMC 456	cs Management Concentration e following: Fundamentals of Clinical Information Systems Lean Services Operations Health Policy and Management Decisions	Hours	

PQHS 431	Statistical Methods I		
CRSP 401	Introduction to Clinical Research Summer Serie	S	
Code	Title	Credit Hours	
Clinical Informatics Concentration 9			
Choose two of the following:			
EBME 473	Fundamentals of Clinical Information Systems		
MPHP 467	Comparative and Cost Effectiveness Research		
MPHP 468	The Continual Improvement of Healthcare: An Interdisciplinary Course		
PQHS 471	Machine Learning & Data Mining		
PQHS 515	Secondary Analysis of Large Health Care Databases		
Choose one of the following:			
CRSP 401	Introduction to Clinical Research Summer Serie	S	
MPHP 405	Statistical Methods in Public Health		
PQHS 431	Statistical Methods I		
Code	Title	Credit Hours	
Bioinformatics C	Bioinformatics Concentration 9		
CSDS 459	Bioinformatics for Systems Biology		
PQHS 451	A Data-Driven Introduction to Genomics and Human Health		
PQHS 471	Machine Learning & Data Mining		