

HEALTH INFORMATICS CERTIFICATE

Learn how to unlock the power of data to improve health outcomes and patient care.

Electronic Health Records (EHRs) contain vast amounts of data. Yet typically, only 20 percent can be readily extracted.

In this certificate program, students learn how to apply machine learning, research methods, natural language processing, and database management to leverage the other 80 percent of "unstructured" health data. We work with our academic medical center partners to provide a hands-on, real-world healthcare database learning environment of more than two million patient encounters over 12 years (including structured and unstructured EHR data).

Curriculum

Loyola's Health Informatics Certificate is a 15 credit hour program.

Code	Title	Hours
HIDS 401	Foundations of Health Informatics	3
HIDS 411	Clinical Data Science	3
HIDS 421	Security and Privacy in Healthcare	3
HIDS 412	Translational Bioinformatics	3
HIDS 422	Ontologies in Healthcare	3
Total Hours		15

Suggested Sequence of Courses

The below sequence of courses is meant to be used as a suggested path for completing coursework. An individual student's completion of requirements depends on course offerings in a given term as well as the start term for a major or graduate study. Students should consult their advisor for assistance with course selection.

Course	Title	Hours
Year 1		
Fall		
HIDS 401	Foundations of Health Informatics	3
HIDS 411	Clinical Data Science	3
HIDS 421	Security and Privacy in Healthcare	3
	Hours	9
Spring		
HIDS 412	Translational Bioinformatics	3
HIDS 422	Ontologies in Healthcare	3
	Hours	6
	Total Hours	15

Graduate & Professional Standards and Regulations

Students in graduate and professional programs can find their Academic Policies in Graduate and Professional Academic Standards and Regulations (<https://catalog.luc.edu/graduate-professional-academic-standards-regulations/>) under their school. Any additional University Policies supercede school policies.

Learning Outcomes

Graduates will be able to work with a multidisciplinary team of computer scientists, healthcare researchers, and data analysts to learn how to use open-source software packages to solve real healthcare programs.