UCI Division of Continuing Education

HEALTHCARE AND PUBLIC HEALTH ANALYTICS

SPECIALIZED STUDIES PROGRAM – ONLINE

The Healthcare and Public Health Analytics specialized studies program is ideal for individuals who want to pursue or advance their career in the healthcare, public health, and information and digital technology fields. The program is designed for those looking to gain analytical skills to transform data into valuable insights to support evidence-based decision making. Using data analytics in healthcare and public health settings can improve patient and population health outcomes, lower costs, improve the quality, safety, and equity of care, enhance system performance for healthcare delivery and population health management, and optimize business operations.

Learn health informatics and advanced analytics while discovering data sources and assets, digital health strategy, and data acquisition and management. Develop data mining applications for healthcare and public health to visualize, analyze, and implement informatics solutions for healthcare delivery and population health management. Study and deploy artificial intelligence and machine-learning solutions to improve patient care, population health, and business outcomes. Additional topics include clinical decision support systems, security and privacy, data governance, digital health, telehealth, and wearable devices.

ce.uci.edu/healthcareanalytics

Offered in partnership with:

UCI Institute for Clinical & Translational Science

UCI Donald Bren School of Information & Computer Sciences

UCI Program in Public Health

WHO SHOULD ENROLL

- Healthcare administrators and public health officials
- Clinicians, medical assistants, healthcare consultants, and other healthcare workers in hospitals, medical groups, clinics, and community care centers
- Employees of public health agencies, community health organizations, and other types of organizations that have a public health focus
- Employees in life science, health science, medical insurance, pharma industries, and other relevant fields
- Data analysts, health informaticians, and technical specialists

PROGRAM BENEFITS

- Define the core competencies for health informatics and health data analytics professionals
- Make the connection between business goals and data analytics, including data strategy and data governance
- Explain the general functions, purposes, and benefits of health informatics and health data analytics in various healthcare and public health settings
- Utilize appropriate tools and techniques to acquire, manage, analyze, and interpret health data
- Leverage data to improve quality and safety of patient care delivery
- Leverage data to inform decision and policy making in public and population heal

EARN A CERTIFICATE

Apply to become a candidate for the program: A Declaration of Candidacy is required to establish candidacy in this program. Complete the application and pay the application and candidacy fee of $125 (non-refundable). Learn more about the benefits of becoming a candidate. Candidacy is not required to enroll into an individual course in a program.

A candidate in the program is awarded a specialized studies certificate upon the successful completion of four (4) required courses totaling 10 units, each with a letter grade of "C" or better. All requirements must be completed within five (5) years after the learner enrolls in their first course. To receive the Certified Digital Certificate after completing all the program requirements, learners must submit the Request for Certificate to initiate the certificate audit process. Learners not pursuing the certificate are welcome to take as many individual courses as they wish.

PROGRAM FEES

Actual fees may differ from the estimate below. Fees are subject to change without prior notice.

Course fees (10 required units)	$2,900
Candidacy fee	$125
Textbooks	$190
Total Estimated Cost	**$3,215**

TO ENROLL

Visit ce.uci.edu/healthcareanalytics for full course descriptions and enrollment information.

FOR MORE INFORMATION:

EngineeringSciences@ce.uci.edu

HEALTHCARE AND PUBLIC HEALTH ANALYTICS SPECIALIZED STUDIES PROGRAM

COURSE#	COURSE TITLE	UNITS
PUBHLTH X400	Healthcare Analytics	2.5
PUBHLTH X400.08	Health Data Acquisition and Management	2.5
PUBHLTH X400.06	Public Health Informatics	2.5
PUBHLTH X400.07	Data Visualization and AI Machine Learning for Health	2.5