THE CENTER for DIGITAL HEALTH & DATA SCIENCE

Blockchain for Health Care Graduate Certificate
WHO WE ARE

The Center for Digital Health & Data Science offers a unique experience focusing on advancing the education, research and scholarship in the emerging field of Digital Health. We offer three graduate certificates that include concentrations on Digital Health Care design, business and technology: Blockchain for Digital Health, Digital Health Design & Communication and Digital Health Entrepreneurship.

Blockchain for Health Care Program Description

Blockchain has become a world-wide staple in the business and finance industries and is now making its way to health care. This first-of-its-kind graduate certificate is focused on exploring the fundamentals of how Blockchain and related technologies, such as artificial intelligence, can be leveraged to improve healthcare and empower patients. Courses will touch on privacy, ethics, regulatory issues as well as a high level understanding of these technologies and how they can be applied to real world use cases.

Audience

The Center for Digital Health & Data Science graduate certificates are designed for working professionals in health care and technology industries.

- Practicing Clinicians
- Pharmaceutical Industry Technologists
- Healthcare Professionals
- Information Technology Specialists
- Senior Managers
- Business Analysts
- Hospital Administrators
- Physician Liaisons
Course Descriptions

Introduction to Blockchain for Health Care | 3 CREDITS
This course provides students the foundational knowledge of Blockchain technology and its applications in healthcare. The topics include the history of Blockchain, related concepts and terminology, and an overview of practical use cases in healthcare.

Blockchain – Real World Use Cases | 3 CREDITS
The Real World Use Cases course covers examples of Blockchain technology applications applied in healthcare, including an in-depth look at some current projects around the world. This course provides an understanding of how Blockchain technology can resolve issues and inefficiencies within the healthcare industry. Interviews with industry leaders will be conducted to deepen students’ understanding of the success, trials, and tribulations in real-world settings.

This builds on the lessons from the intro course to deepen participants’ understanding of Distributed Ledger Technology and Consensus Models through study of a sampling of existing foundational Blockchain platforms in development to support healthcare today. Through the initial development of a project proposal, students will begin to conceptualize the use of Blockchain technologies to address specific issues in a healthcare environment.

Blockchain Policy & Standards | 3 CREDITS
The Policy and Standards course takes a more comprehensive look at the consortia, policies, legal, ethical and regulatory matters that present opportunities and challenges for Blockchain in healthcare. Students will learn the importance of interoperability among the different Blockchain platforms and the importance of collaboration to realize the true benefits of Blockchain in healthcare. Students will explore policy and standards as they relate to leading and managing Blockchain for healthcare technology initiatives.
PROGRAM FACULTY

**Joseph C. Guagliardo** is a partner in Pepper Hamilton LLP’s Philadelphia and New York offices, where he coleads the Technology Group and is chair of the Blockchain Practice. He advises on technology transactions and provides general counseling around technology and intellectual property commercialization, including as part of the cross-disciplinary legal services offered under the Technology Group and Pepper’s Emerging Company Program.

Joseph has extensive international business and legal experience. He previously spent more than a decade at an international venture-backed financial technology (fintech) company, where he served in various technical and business roles in the design and implementation of capital markets trading and settlement software for banks around the world, including a senior management-level position overseeing a global team of software engineers and technology consultants.

**Mike McCoy** is an Emerging Technology Implementation Specialist leading the Healthcare Blockchain Practice at Accenture. In his work, he believes that distributed ledgers, automation and AI have the power to change the ways businesses operate and continue to functionally outgrow siloes. He has a history of working on data and cloud implementations for providers, payers and pharmaceutical companies and believes in open access to truly benefit the patient at all levels. As a Philadelphia native, he strongly believes this city can be the beacon for displaying how new technology can make a difference at a global scale.