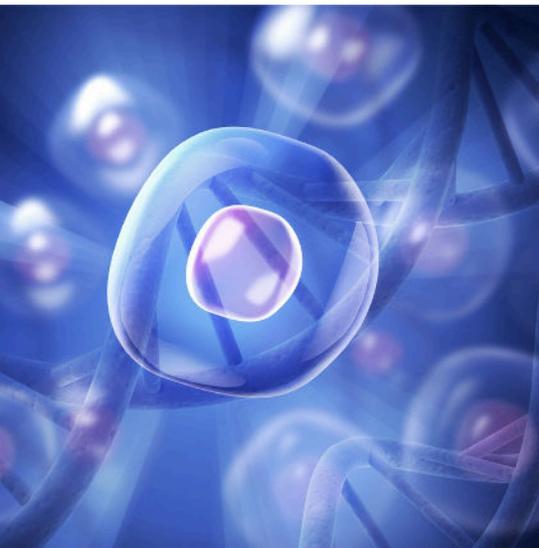# UNIVERSITY OF THE WEST

MSHDA Master of Science in Health Data Analytics

A Cutting-Edge Program at University of the West

Steeped in the values of empathy, integrity, and innovation. School of Healthcare in Science and Technology (HIST) at University of the West offers a career-oriented degree program. The curriculum integrates AI, bioinformatics, and data science to equip students with the skills needed to transform the healthcare industry. With a strong emphasis on advanced technologies and collaboration, our program prepares graduates to lead in healthcare innovation.

WHY OUR PROGRAM

Career-Oriented Degree Program

Designed to equip students with the skills and knowledge needed for success in the healthcare industry.

Cutting-Edge Technology

Providing students with access to the latest tools and methodologies in the healthcare field.

Structured Learning Journey

A well-defined educational path that guides students through complex concepts and real-world applications.

World-Class Faculty

Learn from industry leaders and experienced educators who are experts in their fields.

Focus on AI, Bioinformatics, and Data Science

Specialized programs that integrate advanced technologies to address the challenges of modern healthcare.

Peer Networking

Opportunities to connect and collaborate with a diverse community of students, faculty, and industry professionals.

Personalized Feedback

Receive tailored guidance and support to help you achieve your career goals.

Holistic Development

Cultivating students to become well-rounded healthcare professionals with empathy and integrity.

TWO SPECIALIZED MASTER'S DEGREE TRACKS

- **Healthcare Data Science and Analytics**
- **Actuarial Analytics in Health Management**

Earn your **Master's Degree** in as little as **18-24 months** with our **38-credit** program. Our curriculum covers essential areas like AI, bioinformatics, data analytics, and healthcare management, ensuring you're well-prepared to lead in the healthcare industry.

ADVISORY BOARD - MEET OUR TEAM

Wen-Ta Chiu, MD., PhD
**Senior Neurosurgeon and
Global Healthcare Leader**

Dr. Chiu is a neurosurgeon, educator, and healthcare executive with over 35 years of experience, known for his leadership in public health and his role in advancing healthcare quality and patient safety across the U.S., Taiwan, and the global healthcare landscape.

Robert C. Myrtle, DPA
**Professor Emeritus
Healthcare Management and Leadership,USC**

Dr. Myrtle holds several board member positions in hospitals and health plans. A renowned researcher and educator worldwide in the healthcare field.

Douglas Edward Shook, PhD
**Professor Emeritus
Data Science and Operation, USC**

An influential, innovative IT executive, researcher，and educator served as Chief Information Officer, Vice Provost, and deanships at USC. Keeping a record of the best teaching faculty in USC history.

Yun Yen, MD., PhD
**Senior Oncologist and Global Scientist in Life Science
Member of the National Academy of Inventors
Fellow of American College of Physicians**

Dr. Yen is an Oncologist, scientist, inventor, educator, Emeritus President, Chair Professor at Taipei Medical University, an Elected Fellow of the American Association for the Advancement of Science, and Associate Director of City of Hope Comprehensive Cancer Center, focusing on cancer research and translational medicine.

Joanna C. Yu. RPh, PhD
**Chief Advisor in Indo-Pacific
Research Center, LA, USA**

Dr. Yu has extensive work experience in different fields: the American and Taiwanese governments, Employee Health Insurance and Benefits in labor unions (NGO), and Wintetour Swiss Life Insurance. After gaining a valuable variety of experience in three sectors, she transitioned to academia and worked as the academic director in a Public Policy school at USC for 23 years.

HEALTHCARE IN SCIENCE AND TECHNOLOGY – A DEEPER DIVE

Establish yourself as a leader in healthcare and technology with our core courses

PREREQUISITE/FOUNDATION COURSES

- Business Statistics
- Management Information System

CORE COURSES

- The U.S. Healthcare System, Issues, and Solutions
- Applied Biostatistics in Healthcare
- Healthcare Database Management
- Artificial Intelligence in Healthcare: Principles, Tools and Applications
- Applied Lean Six Sigma in Health Care

Specializations: Gain expertise in your chosen area through elective courses

- Clinical Informatics in Healthcare
- Bioinformatics from Theory to Practicum
- AI-Driven Strategy and Implementation in Patient Care
- Personal Leadership Development in a Global World
- Seminar in Translation Research
- Personal Leadership Development in a Global World
- The U.S. Economics, Finance and Reimbursement
- Advanced Development of the U.S. Health System