

# ONLINE DATA ANALYTICS IN HEALTH CARE, GRADUATE CERTIFICATE

IS 545	3
Total Credit Hours	15

Courses in this certificate program can also be applied to a master's degree in health informatics.

Data analytics is the process of acquiring, extracting, integrating, transforming, and modeling data with the goal of deriving useful information. Its application is growing rapidly in health care organizations across the globe. Data Analytics in Health Care enables the systematic use of data to drive fact-based decision-making to assist in health care planning, management and measurement. However, many organizations lack the knowledge to effectively utilize data analytics. As a result, according to a survey published by Journal of AHIMA (2015), healthcare big data analytics and informatics skills will be among the most sought-after competencies for health information management (HIM) professionals in the next few years.

The Marshall University Online Data Analytics in Health Care certificate is designed to provide health care professionals with the skills required to compete for data analysis jobs amid rising demand in the health care industry. The certificate program will explore the intricacies of data analytics and expose students to various topics related to data processing, integration, analysis, and visualization. Individuals who complete this program will have a solid framework of data analytics methodologies accompanied by exposure to the tools used for knowledge discovery pertinent to health care.

The certificate is intended for students who are interested in transforming the massive data being produced in the health care industry into meaningful information. They are the individuals who want to determine what decisions or actions should be taken to generate value from the healthcare data produced every day.

## Admission Requirements

Applicants should follow the admissions process described in the Graduate Catalog, or at the Graduate Admissions website at [www.marshall.edu/graduate/admissions/how-to-apply-for-admission](http://www.marshall.edu/graduate/admissions/how-to-apply-for-admission) (<http://www.marshall.edu/graduate/admissions/how-to-apply-for-admission/>). (Submit all materials to the Graduate Admissions Office.) Students must have an undergraduate Grade Point Average (GPA) of 3.0 or higher on a 4.0 scale for all previously completed undergraduate university work, and ORE scores from ORE test taken within the past five years.

## Plan of Study

Students must take the following courses:

Code	Title	Credit Hours
HP 605	The Role of EHR and PHR	3
HP 610	Analytics for Healthcare	3
HP 630	Research Methods and Data	3
IS 535		3
or IS 623	Database Management	