

## FREE Training!

For All U.S. Healthcare Workers

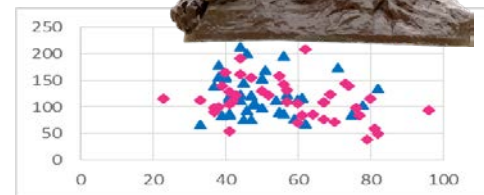
## Healthcare Data Analytics 1-Day Bootcamp

**Data, Information, Knowledge, and Decisions in Health Care**


This 1-day bootcamp in Healthcare Data Analytics will present an overview of the process of converting data into decisions. The course will discuss types of data, how to summarize data into meaningful information that induces insight, and introduce some of the inferential and modeling techniques that are used by the knowledgeable person to form conclusions. Excel will be the main tool used to illustrate the topics, with reference to other appropriate tools. *6 Contact Hours, 0.6 CEUs.*

### Topics:

1. The Data, Information, Knowledge, Decision model
2. Data types (Quantitative, Qualitative, Categorical, Rank, Interval and Ratio)
3. Data validity, integrity, and accuracy
4. Symbolic summaries of univariate data (basic descriptive statistical measures)
5. Graphical summaries of univariate data and bivariate data
6. Inferences: estimation and testing
7. Inferences: categorization and modeling
8. Brief discussion of the scopes and types of decisions in health care



### Upon completion, participants will be able to:

1. Discuss the types of data needed or used in Healthcare situations
2. Understand the issues surrounding data validity, accuracy, and integrity
3. Use software tools to create symbolic and graphical summaries of data (Excel: the Data Analysis Toolpack, descriptive statistics and database functions, graph tools, and sparklines (  )
4. Discuss the importance of creating appropriate summaries for the recipient of the information
5. Discuss the inference methods needed or used in various Healthcare situations, including categorization, modeling, and statistical inference

## About Your Instructor:

Mark Ahrens has been an instructor in the Mathematics and Computer Science Department at Normandale Community College since 2006, and department chair since 2010. He teaches all levels of Mathematics from developmental through upper level calculus. Mark taught at the University of St. Thomas in the Decision Sciences Department of the School of Business (1990-2006) and was Director of Outreach Programs. During this period he also taught workshops and seminars in Statistics and Decision Sciences for the Graduate Medical Management programs at St. Thomas and at University of Wisconsin, Madison. Mark completed a BS degree from the Illinois Institute of Technology in Mathematics and Engineering Sciences, a Masters in Applied Mathematics from the University of Waterloo (Ontario), and has completed doctoral courses at the University of Minnesota in Mathematics and Aerospace Engineering and Mechanics. Mark has authored or co-authored 9 peer-reviewed research articles. His most recent teaching awards include the Board of Trustees Outstanding Educator Award (2016), the John and Suanne Roueche Excellence Award from the League of Innovation (2016) and Outstanding Educator of the Year from the Minnesota Mathematics Association for Two-Year Colleges (2013).



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To learn more about **Normandale's Continuing Education Department**, visit our webpage at: [normandale.edu/ce/classes](http://normandale.edu/ce/classes) or email us at [ncal@normandale.edu](mailto:ncal@normandale.edu).

## Spread The Word!

We will be offering these bootcamps for a very limited time as our grant resources will end in late May 2017. Please share this opportunity with your colleagues, managers and any other group that would benefit. The next available bootcamps will be:

- Sat, 3/18/17 – Open seats available (1/2 full)
- Sat, 3/25/17 – Open seats available
- Fri, 3/31/17 – Open seats available
- Sat, 4/8/17 – Open seats available
- Sat, 4/22/17 – Open seats available

### Remember, to qualify for this free training, registrants:

- Must currently work for a healthcare organization or one that supports healthcare (Ex: insurance, pharmacy, medical device, allied health, IT vendors in healthcare, consultants in healthcare, etc.)
- Cannot have previously registered for any ACT Health IT courses within the last 6 months.

Register at: <http://bit.ly/ACTBootcampRegistration>



*This training is made freely available to qualified candidates via a grant from the Office of the National Coordinator for Health Information Technology (ONC). The ACT (Accelerating Healthcare Transformation) Program is a 2-year grant-funded program to educate and upskill healthcare professionals to enable our healthcare community to transition to a value-based care system that focuses on better health, improved care delivery, lower costs and wellbeing for caregivers.*