

AZNext

Arizona State
University

Making Decisions with the Numbers

AZNext is a training program designed to create a bold, innovative, and sustaining workforce development ecosystem that addresses the need for more skilled workers in modern data analytics, IT, cybersecurity, and advanced manufacturing roles in Arizona and across the U.S.

Provided at no cost to
the participant.

Contact Us

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Social Media

Twitter: [@AZNext_ASU](https://twitter.com/AZNext_ASU)

LinkedIn: [AZNext](#)

Become an Expert in the High Demand Data Analytics in Health Field!

Join the Introduction to Health Analytics Program!



The **AZNext Introduction to Health Analytics** program is open for enrollment.

AZNext is pleased to offer the ASU Introduction to Health Analytics program. Designed based on “Making Decisions with the Numbers”, a course meant to assist healthcare managers and their employees understand the use of data in the decision-making process. Participants in this course will learn how to make use of a subset of the population to extrapolate to the entire population with a certain degree of accuracy. Participants will also learn how to choose such a subset to inform the decision maker and to improve accuracy in the extrapolation. ASU faculty will show how these basic techniques once mastered can be implemented in almost any discipline. Participants will learn to use R (an open-source software) in their decision making. Show-case data and examples will come from health, business, supply chain, education, transportation and other every day events.

The program is accessible to people with backgrounds with GED and high-school mathematics who are interested in learning more on modern data analytics techniques using R. No R experience is needed and the instructors will work you through from the beginning with the course materials.

To apply for the program, candidates will be asked to submit an online application and complete a pre-assessment to verify eligibility and baseline skills required for admission.

What are Data Scientists?

Data Scientists are all classified as “Bright Outlook occupations” from the Bureau of Labor Statistics website

(<http://www.onetonline.org/crosswalk/SOC/>), which is officially defined as the occupations to be expected to grow rapidly in the next several years with large numbers of job openings.

Fast Facts

Median Salary: \$92,270 (U.S.)

Job Growth: Estimated 33% or Higher (US)

How to Apply



Link to [Application](#)

Questions

Email: AZNext@asu.edu

To learn more, connect with AZNext today!

Program Timeline

The program consists of two 5-week modules of faculty-facilitated instruction including readings, exercises, and computing using R. A weekly 2-hr online live virtual lecture including an example with its background will discuss each week's topics.

Textbook Provided: [Statistical Analytics for Health Data Science with SAS and R](#). By Jeffrey Wilson, Ding-Geng Chen, Karl E. Peace

Instructed By: Professors Wilson and Chen

Module 1: Chapters 1, 2 & 3

Week 1- Introduction to obtaining subsets of the population

Week 2- Types of information and collection measures

Week 3- Properties of the subset of a population

Week 4- Describing properties of the subset of the population

Week 5- Measures of items in the subset as compared to the population

Module 2: Chapters 4 & 5

Week 6- Making binary statement and testing their veracity

Week 7- Making binary statement and testing their veracity & Interpretation

Week 8- Identifying covariates on binary responses & testing their veracity

Week 9- Identifying covariates on quantitative responses & Interpretation

Week 10- Modeling outcomes with additional input and testing their veracity

Participants will contextualize what they are learning through relevant data decisions based on examples in their working environment

What You Will Receive

Upon successfully completing the course the participant will be prepared and able to make decisions based on the subset given with the aid of R along with their own collected. In addition, successful participants will receive an AZNext/ASU Digital Certificate.

Admission Requirements

Participants must be:

- 17 years of age or older
- A high school or GED graduate
- Unemployed, underemployed, looking to upskill/retrain