

# Computer Information Systems - Data Science Certificate (CIS.DSC.CT)

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## Computer Information Systems - Data Science Certificate (CIS.DSC.ONL.CT) - 100% Online

### Certificate

#### Business, Management, Marketing and Technology

Orchard Ridge Campus

The Computer Information Systems (CIS) certificates are designed for students who need specialty skills in a particular area of information technology that will help satisfy current or future employment requirements. Unlike associate degrees, certificate programs assume that students already have obtained or do not require general education skills and are now looking for education in a specific area of computer technology. Therefore, all of the courses within a certificate program are chosen to develop these specific technical skills in a shorter amount of time than what would be required in an associate degree program. All CIS courses use current computer tools and place an emphasis on practical application to provide a relevant learning environment.

The Data Science Certificate is designed to provide a strong foundation for data investigation, including data wrangling, cleaning, sampling, management, security, exploratory analysis, regression and classification, prediction, and data communication.

**Program Full Time Plan Example** - Click Here (<https://www.oaklandcc.edu/program-plan/cis.dsc.ct.ft>)

**Program Part Time Plan Example** - Click Here (<https://www.oaklandcc.edu/program-plan/cis.dsc.ct.pt>)

Code	Title	Credit Hours
<b>Major Requirements</b>		
CIS 1200	Introduction to Database Systems	4
CIS 1600	Fundamentals of Cybersecurity	4
CIS 2131	Python Programming	4
CIS 2141	R Programming for Data Science	4
CIS 2241	Discrete Structures	4
CIS 2353	Data Structures	4
CIS 2541	Introduction to Machine Learning	4
CIS 2637	Big Data and NoSQL Systems	3
MAT 1580	Statistics	4
<b>Total Credit Hours</b>		<b>35</b>

A minimum cumulative 2.00 grade point average (GPA) overall is required for graduation.