DATA SCIENCE, CERTIFICATE

Program Description

The certificate provides students with the knowledge and skills to review and integrate big data sets and provide visual representation of results. The program mixes statistical analysis with data preparation to provide visual results to questions. The program includes coding skills specifically for Big Data.

Mission

The Data Science Certificate educates students in theoretical and practical concepts related to Big Data. Students develop data connections and use analytical techniques to answer specific questions related to the data.

Program Goals

- · Prepare students to enter the field of data science
- Prepare students to extend data analysis through the use of data science methods

Program Specific Information

This certificate may be applied as an option for the M.S. Computer Information Science, M.S. Cybersecurity or M.S. Economic Crime Forensics programs.

Degree or Certificate Earned

Certificate

Required for Program Completion

- Courses
 - 5
- · Credits
 - 15
- GPA
 - 3.0

Student Learning Outcomes

- · Explain data relationships based on real world variables
- · Use statistical methods to develop data models
- Construct and transform views of relevant data sources based on independent variables
- · Prepare data learning based on data views

Academic Requirements

Code	Title	Credits
CIS 523	Data Processing and Database Management	3
CIS 658	Data Mining	3
ANA 615		3
CIS 633	Data Analysis with R	3
CIS 654	Artificial Intelligence	3
Total Credits		15

Course Sequence

Course	Title	Credits
First Year		
First Semester		
CIS 523	Data Processing and Database Management	3
CIS 633	Data Analysis with R	3
	Credits	6
Second Semester		
CIS 654	Artificial Intelligence	3
ANA 615		3
	Credits	6
Third Semester		
CIS 658	Data Mining	3
	Credits	3
	Total Credits	15

Faculty

Director: Margaret M. McCoey, M.S.

Associate Professors: Blum, Redmond, Wang

Assistant Professors: McCoey, Yin

Lecturers: Casey, Crossen, McGinley, McManus

Program Contact Information

Data Science Certificate Holroyd Hall, Room 129 gradcis@lasalle.edu

Staff Contact Information

Margaret McCoey Program Director Holroyd Hall, Room 129 mccoey@lasalle.edu (215) 951-1136