

CIS PROFESSIONAL IN PYTHON PROGRAMMING (CERTIFICATE M0675)

Business Division

Certificate M0675

The CIS Professional in Python Programming certificate prepares students for a career in computer programming. It is intended for returning CIS professionals with several years of experience or current students who have completed several CIS courses. Emphasis is placed on object-oriented programming, database programming, developing a graphical user interface, web development, and web scraping. Students will demonstrate the ability to create business-oriented applications using Python programming language; demonstrate effective object-oriented design techniques; write effective program documentation, and demonstrate program troubleshooting skills. Opportunities available after the completion of this certificate include standalone applications, database, web based, web scraping, and business applications.

Required Courses

Course Prefix	Course Name	Units
CISP 10	Principles of Object-Oriented Design	2.5
CISP 71	Programming in Python	3
CISP 71L	Programming in Python Laboratory	0.5
CISP 74	Advanced Programming in Python	3
CISP 74L	Advanced Programming in Python Laboratory	0.5
Total Units		9.5

Program Learning Outcomes

Review Student Learning Outcomes (SLOs) (<http://www.mtsac.edu/instruction/outcomes/sloinfo.html>) for this program.