

MC Program Modification: Computer Project Management - Certificate of Achievement

Description

The Computer Project Management Certificate of Achievement Program is a workforce program providing instruction in the application of Software Engineering skills to Business projects that use computers for process improvement or innovation. This program can be completed in one year or less and qualifies the graduate to enter the designated occupation at the prevailing wage. It includes training in both principles of management and software engineering to support successful completion of these projects. It also equips the non-technical project manager to manage software projects enabling them to compete for project management positions in the software development work force.

Specifically, students will learn use of the software engineering process and application of skills, tools, and techniques to manage project activities; enumeration of project goals as sequences of tasks with clearly defined beginning, end, scope, and resources; analysis of project goals to create a prioritized task list that will lead to successful completion; analysis of budget and human resources to develop a utilization plan; and communication of progress, status, and milestones. Skills applicable to any kind of project are supplemented by instruction in software engineering to support one of the prevalent project management needs of the Silicon Valley and the Bay Area workforce. These enable the design of integrated software systems to efficiently fulfill business processes and needs.

To qualify for the Computer Project Management Certificate of Achievement Program, students must complete 14-15 units of required core courses with the option to complete 2 units (*150 hours of paid work or 120 hours of unpaid work*) of Occupational Work Experience (OWE) in Project Management. This OWE qualifies them to take the Certified Associate Project Manager (CAPM) examination from the governing body Project Management Institute.

Major Core Courses

Units: 7.0

CIS 051	Introduction to Information Technology Project Management
CS 080	Software Engineering

Major Elective Courses - List A

Units: 3.0-5.0

Select one course for a minimum of 3 units

CS 020	Python Application Programming
CIS 001	Introduction to Computer Information Systems
CIS 005	Introduction to Computer Science
CIS 006	Introduction to Computer Programming
CIS 007	Control Structures and Objects

Major Elective Courses List B

Units: 2.0-9.0

Select at least one course for a minimum of 2 units or select an optional restricted elective group from the list below

CIS 234A	World Wide Web Publishing I
CIS 234E	Creating an E-Commerce Web Site
BUS 050	Principles of Management
BUS 054	Small Business Management
BUS 070	Introduction to Marketing
BUS 074	Introduction to Advertising
BUS 076	E-Commerce/Entrepreneurship
BUS 083	Introduction to Digital Marketing

Optional Occupational Work Experience

Units: 0.0

Students who select CIS 469 are able to provide evidence of applicable work experience on their college transcript. The student must secure 150 hours of paid work or 120 hours of unpaid work in project management prior to enrolling in CIS 469.

COPED 469	Occupational Work Experience in Security Administration	2.0
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Optional Restricted Electives

Units:

Select one group of Optional Restricted Electives from the list below

Group A: Web/ECommerce Project Management

Units: 0.0

CIS 059	Applications in Information Security
CIS 234A	World Wide Web Publishing I
CIS 234E	Creating an E-Commerce Web Site

Group B: Digital Marketing Project Management

Units: 0.0

BUS 070	Introduction to Marketing
BUS 074	Introduction to Advertising
BUS 083	Introduction to Digital Marketing

Group C: Cybersecurity Project Management

Units: 0.0

Requires selection of CS20, CIS 5, CIS 6, or CIS 7 from elective list A

CIS 055	Hacker Techniques, Exploits, and Incident Handling
CIS 071	Introduction to Information Systems Security
CIS 060	Computer Forensics Fundamentals

Group D: Data Science/Artificial Intelligence/ML Project Management

Units: 0.0

Requires selection of CS20, CIS 5, CIS 6, or CIS 7 from elective list A

CS 060	Applications of Artificial Intelligence and Deep Learning
CIS 042	Spreadsheet Applications
CIS 098	Database Programming with SQL

Group E: Blockchain and Cryptocurrency

Units: 0.0

CIS 100	Introduction to Blockchain, Cryptocurrencies, and Identity
CIS 066	XML Documents and Applications
CIS 108	Scripting for Systems Automation and Data Analysis
CIS 234E	Creating an E-Commerce Web Site

Total: 12.0-21.0