**DevOps - Development and Operations Automation Degree and Certificate (pending)** 

Program Requirements		Credit Ho	urs: (11-13 Re	auired)
	n Technology (IT) Model Curriculum(ITMC)			4
Course Number	Course Name	Equiv. Cert.	C-ID Descr.	Units
CIS 110 and	Information & Communication Technology Essentials	A+	IT IS 110	0
CIS 005 or	Introduction to Computer Science	MS Office	IT IS 120	
<u> </u>	introduction to computer science	IVIS CTITEC	IT IS 130 or	
CIS 006 or	Introduction to Programming		COMP112	
C13 000 01	introduction to Frogramming		IT IS 130 or	
CIS 007 or	Control Structures and Objects		COMP122	
CIS 007 or	Control Structures and Objects		ł — — — — — — — — — — — — — — — — — — —	1
00.000			IT IS 130 or	
CS 020 and	Python Application Programming		COMP122	
CIS 062 or	Introduction to Systems Analysis and Design		ITIS 140	1
CIS 071 or	Introduction to Information Systems Security	Security+	IT IS 160	
CIS 072 or	Systems and Network Administration	Server+	IT IS 155	
CIS 073 or	Networking Concepts	Network+	IT IS 150	
CIS 106A	Routing and Switching Networks	CCENT	IT IS 151	
General Education Requ	irements	Credit	Hours: (13-15	Required)
	PCCD General Education Pattern (19 Units)			
DevOps Required Cours	es	Credit Ho	urs: (16 - 19 R	equired)
CIS 051 and	Introduction to Information Technology Project Management	CAMP (PMI)		
CIS 059 and	Applications in Information Security	, , , ,		
BUS 019 or	Business Communications		BUS 115	
ENGL 1A or	Composition and Reading		203 113	1
ENGL 1A OI	Critical Thinking in Reading and Writing			1
CIS 108 and				1
	Scripting for Systems Automation and Data Analysis			
MATH 13 or	Introduction to Statistics			
MATH 16A or	Calculus for Business and Life/Social Sciences			
MATH 3A	Calculus I			
Select One Group of Res		Credit	Hours: (12 - 13	
Social Media and Online	e Community Management		С	redit Hours:
CIS 221 and	Introduction to Information Technology Project Management	2		
CIS 247 and	Information Systems Skills Challenge			
SOC 001 and	Introduction to Sociology			
PSYCH 001A and	Introduction to General Psychology			
PSYCH 006 and	Social Psychology			
COPED 450	General Work Experience		Ì	
Cybersecurity Operation	ns .	Credit	Hours: (13 Re	equired)
CIS 055 and	Hacker Techniques, Exploits & Incident Handling			
CIS 060 and	Computer Forensics Fundamentals			
CIS 052 and	Cloud Security Fundamentals			
0.0 002 0.10	Intrusion Detection In-Depth: Compliance, Security, Forensics		1	
CIS 053 and	and Troubleshooting			
CIS 247	Information Systems Skills Challenge		1	1
CIJ 241	CIS 247 requires participation in one round of Ethical Hacking	1	l	1
	Competition: National Cyber League (NCL),			1
	, , , ,			
Day One Caffrey 7	CyberPatriots, CyberDefenders, or equivalent. eering Automation/Continuous Integration	1	Cu.a. alie 11	/12 D '
		Credit Hours:	<del>i</del>	
* MC/CCSF/CSM Course	#			Units
CS80 / CS177 /	Software Engineering			
CIS178 / CS178 / CIS145	Build Automation for DevOps and QA/Intro to DevOps			
CIS 179 / /	Agile Software Management and Project Automation			
COPED 450 / /	General Work Experience in Project Management			
*MC=Merritt College, CS	M= College of San Mateo, CCSF= City College of San Francisco			
This sequence qualifies				
you	for the Project Management Institute Agile Certified Practitioner			
,	exam https://www.pmi.org/certifications/types/agile-acp			
		die Union 160	Dog	
Nankila Ammii 41 5 - 11	Mobile Application Build and Test Automation			Required)
CIS 033 and	Software Architectures and Algorithms			
CIS 033 and CIS 093 and	Software Architectures and Algorithms Cross Platform Mobile Application Development			
CIS 033 and	Software Architectures and Algorithms			

## What are My Career Opportunities?

DevOps is at the center of rapid transformation in software development and IT operations. This fast-track program combines IT & IS courses with DevOps program specific courses into a program you can complete less than 2 years.

Development Operations Engineer salaries in California



Development Operations Engineer salaries by company in California

DevOps - S	oftware	Engineering Auto	omatio	on and Cl	
Salary Est.	# Jobs	<b>Position Types</b>		Location	
\$115,000	310	Full-time	355	San Francisco	76
\$125,000	262	Contract	13	San Diego	41
\$130,000	217	Internship	12	Palo Alto	33
\$140,000	141	Commission	1	San Jose	20
\$145,000	91			Sunnyvale	20
Total	1021				
Source: Indeed.com					

The modern world runs on software; people that know how to build software are always in demand. You don't have to be a software developer to work in DevOps. A person with the skills to use Virtual Machines (VMs) to automatically build, deploy, and test software that other team members write can enter one of the most in-demand and high-paying workforce careers in 2 years or less. The average salary (based on a survey of 5,191) is \$137,891 with approximately 1,021 open positions in the SF Bay Area alone. You don't have to know how to write software to get started in DevOps; just how to build it!

## What Types of Positions Can I Get?

The DevOps Build Master role is an essential member of a software development team. They may be employees or an independent contractor & entrepreneur using automation to streamline software pipeline for several companies. This course is also part of a regional collaborative sequence of study that qualifies the graduate to take the Project Management Institute Agile Certified Practitioner (PMI-ACP) exam and gain a globally recognized occupational certificate.

## How Do I Learn This Inter-Disciplinary Skill Set?

This course follows a project driven structure. You start with a simple, bare, Virtual Machine (VM) and with each topic you add one or two capabilities in order to complete project oriented tasks. These tasks are scoped to help you acquire specific skills. Skill gaps are expected and many students are able to acquire skills and catch up fairly easily. There are XLabs - things you add to your VM that equip it to be used to complete the assignment; for example the ability to send mail from your build VM. The assignment reflects the learning outcome of each topic. The XLabs represent professional skills you will use again and again in different forms in your DevOps career.

## **Apply and Enroll!**

http://www.merritt.edu/wp/steps/

Merritt College - Department of Business & Technology - contact: CourtneyBrown@peralta.edu

**2** | Page