

San Bernardino Valley College

MIS Certificate of Achievement

Desert Regional Consortium - First Read

1. Overview of program being proposed

The goal of the Computer Management Information System (MIS) Certificate is to prepare students for a career in the Information Technology field. The competencies of this certificate are based on the knowledge section of O*NetOnlineSummary report for SOC code15-1131, Computer Programmers. Table 1 lists the course within this certificate that substantially addresses each competency. This is a vocational instruction program and is, therefore, aligned with the California Community College Colleges mission as defined in CAL. EDC. CODE § 66010.4(a)1.

Requirements	Dept. Name/#	Name	Units	Sequence
Required Core (16 units)	CIT 031	Business English	3	Yr 1, Fall
	CIT 101	Introduction to Information Literacy	3	Yr 1, Fall
	CIT 114	Spreadsheets: Excel	3	Yr 1, Spring
	CIT 116	Database Management: Excel	3	Yr 1, Spring
	CIT 215	Database Management Systems	3	Yr 2, Fall
	CIT 232	Computer Network Fundamentals	3	Yr 2, Fall
	CS 120	Introduction to VisualBasic.NET	4	Yr 2, Spring
Electives (one course)	CIT 021	Word Processing: Comprehensive Microsoft Word	4	
	CIT 026	Computer Graphics	3	
	CIT 102	Advanced Computer Literacy	3	

Required Core Total: 22 Units

TOTAL UNITS: 25-26 Units

Proposed Sequence:

Year 1, Fall = 6 units

Year 1, Spring = 6 units

Year 2, Fall = 6 units

Year 2, Spring = 4 units

TOTAL UNITS: 22 units

Table 1. Mapping of O*Net STEM education recommended for this occupation to SBVC Courses where these technologies are covered as a topic(s) or course objective(s).

O*NET skill	SBVC course(s)
Computer and Information Sciences	CIT 101, CIT 102
Computer Graphics	CIT 026
Computer Programming	CS 120
Specific Applications	CIT 021, CIT 114, CIT 116, CIT 215
Management Information Systems	CIT 031, CIT 101, CIT 102, CIT 232

The program-level student-learning objective is:

Student will demonstrate readiness to begin employment in an entry-level Management Information (MIS) careers as evidenced by

1. Attainment of Industry recognized certification(s) in Microsoft application software (Word, Access, Excel and PowerPoint).
OR
2. Participate in a student Management Information competition.
OR
3. Complete a computer Management information System internship experience
OR
4. Obtain employment part-time or full-time in a Management Information related field

2. Labor Market Information

a. Labor Market Information and Analysis

This analysis is based on the 2012-2022 Occupational Employment Projections for the Riverside-Ontario-San Bernardino Metropolitan Statistical Area published by California Economic Development Department (CalEDD) on December 2014 (<http://www.labormarketinfo.edd.ca.gov/> retrieved January 24, 2016).

This certificate is designed to align with SOC code 15-1100, Computer Occupations that includes Management Information Systems. Students who complete the MIS Certificate will find an occupation with 15.9% job growth between 2012 and 2022.

b. Employer Survey

This analysis is based on Information and Communications Technology Occupations in the Inland Empire published by the California Community College Desert/Inland Empire Region Center of Excellence in 2013 (http://www.coecc.net/Environmental_Scans/ICT_ie_13.pdf retrieved 09/22/2015).

The results of the survey are that most job openings and most of the jobs with increasing demand require a Bachelor’s degree. The survey finds a similar growth rate to the CalEDD projections but has a more optimistic estimate of job openings with 45 job openings per year.

c. Explanation of Employer Relationship

N/A. This is not an apprenticeship program

d. List of Members of Advisory Committee

Roland Acosta	Alicia Tuttle
Reginald Metu	Roger Powell
Mary Lou Vasquez	Nicholas Xenos
Jason Brady	Richard Grotegut
Marche Haynes	Charles McClain
Gary Hiller	Maha Al-Husseini
Lyle Reibling	Henry Hua
Karen Stanton	Mona Jackson
David Thurston	Ski Kacoroski
Cory Brady	Robert Youngquist
Chris Will	Patricia Jones
Yui Shin	Richard Grotegut

e. Recommendations of Advisory Committee

TOPIC	DISCUSSION	FURTHER ACTION
Welcome & Introductions	Brief instructions for committee members on cccconfer. Welcome by Dean Hua and Dr. Roger Powell. Introduction of committee members.	
Program Overview and Updates <ul style="list-style-type: none"> • Degrees & Certificates • Courses • Distributed Education • Program Review 	<ul style="list-style-type: none"> • AS-T for CIT is in draft status • College just approved a virtual lab • CIT is geared toward CTE and CS is more of a transfer degree • CIT AA degree will not disappear after AS-T is approved 	<p>College should work toward getting CIT AS-T degree approved</p> <p>Also need one or more CTE certificates in CS – Web, Mobile</p> <p>Keep AA degree for students not transferring.</p>
Industry Trends <ul style="list-style-type: none"> • Local Labor Market • Windows 8 • Office 2013/Office 365 • Cloud Compting • Cyber Security • Virtual Machine Technology 	<ul style="list-style-type: none"> • Resistance from Industry and College IT to Windows 8 but CIT is adopting it. • Office 2013/365 will move out of the desktop and onto cloud • Interesting in Cyber Security programs and virtual machine 	<p>CIT should stay up to date. Windows 8 is right decision. Cloud is important should have Cloud course/certificate</p> <p>College must pursue both of these – they are growth areas for technology and employment. Get CAE2Y certifications</p>

<p>Challenges</p>	<ul style="list-style-type: none"> • SBVC is focused on accreditation and what just took place with San Francisco City College by ACCJC • There is a focus on career paths and building ways for students to move from HS to Community College to University • In the past budget has been an issue but things are well now and it we have been able to get the net lab • Would like to start an internship program but will need support to start pushing it. Would like to reinstate work experience courses. • Just discovered we had certificates that were not approved by the state so we are working on getting that corrected. With those corrections we are also working on shortening or certificates. The unit requirements for some of our certificates are too long. • In SP14 we were given onetime special allocation funds and our faculty decided to purchase textbooks for a rental program for the students. 	<p>This is important. There is a shortage of high tech workers. Need to start even before HS – Middle School.</p> <p>Committee supports internships and work study-type programs. These are vital to creating employable students.</p> <p>This is a good opportunity to bring certificates in line with work force needs. Short (1 year or less) certificates are desirable.</p> <p>Cost of books is terrible – try online, Academies, and virtual Labs to reduce textbook costs.</p>
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<p>Open Discussion</p>	<ul style="list-style-type: none"> • Committee member has taken a course with Professor Al-Husseini - Access – he was able to learn new skills since many jobs are now being outsourced and are database driven. • SBVC is headed in a great direction but would suggest tailoring certificates to be shorter and possible creating a database certificate. • CRY-ROP –15 kids a year come straight out of HS with a NSA certificate. Microsoft offers free software , E-Books (DreamSpark) • Conference in June @ Cal Poly Pomona (cloud) and virtual lab set up • IT essentials curriculum is mandatory • Cloud computing is huge. Virtual desktop lab (cloud based environment) • Programmers are in demand • Internship offered in Washington \$10-12 per hr, 20 hrs per week (school) 40 hrs a week (no school) • Prefer interns with at least 1 year of college completed and with a minimum stay of 1 year (prefer 2 years). • Benefit for intern is that they d doing system administration on technologies such as vmware, windows 2012, splunk, monitoring, SANs, NAS, etc. • Benefit for school district is that we get low cost labor that takes care of backups, account management, setting up test systems, logging, monitoring, etc. Now with 3 people, the more experienced people train the newer ones. • In addition, LOPSA has a mentorship program that will match up an 	<p>Need to develop a Database certificate. Focus on database.</p> <p>Continue to make certificates shorter and schedule classes so that students can complete in a timely manner.</p> <p>Need to build a partnership with CRY-ROP and others for Cyber Security. Add security courses. Use more materials from vendors such as Cisco, Juniper, and Microsoft. Faculty need to take advantage of training opportunities and pursue certifications</p> <p>Replace CIT080 and CIT 081 with new CIT110 course – aligned with Cisco Academy Curriculum.</p> <p>Start using virtualization and create a virtualization course/certificate</p> <p>Work on Programming certificate – build options that cross between CS and CIT.</p> <p>Work with SBCCD, local K-12 Districts, and local companies to identify internship/employment</p> <p>Plan internships for students who have completed helpful coursework</p> <p>Students need these experiences. We must have work study-type of opportunities for students.</p> <p>This is a win-win</p> <p>Partner with professional organizations like LOPSA. This will benefit students.</p> <p>Need partnerships with the community, employers, Industry leaders,.</p>
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eMeeting Adjourned		Next Advisory Meeting TBD
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3. Similar Programs in Region 9

The TOP code that most closely aligns with this program is 70200 (Computer Information Systems). There are similar programs at Cerro Coso College, Barstow College, Victor Valley College, Chaffey College, and Mt San Jacinto College based on a search for this TOP code in the Inventory of programs downloaded from http://www.desertcolleges.org/dsn/ict/ProgInv_ByColleges.xlsx. The Chaffey College program is located at the Chino campus. The geographical areas that each program will serve mitigate the concerns that the SBVC program may compete with programs at the other colleges. Barstow would serve the high desert, Chaffey the west end of San Bernardino County, Mt San Jacinto would serve Riverside County leaving SBVC to pick up the central San Bernardino valley area.

4. Alignment with Secondary Programs in the Region

a. List of feeder Districts

The Colton Redlands Yucaipa ROP (CRY-ROP) and the San Bernardino City Unified School Districts (SBCUSD) have programs that align with this program.

b. Program Coordination Plan

The SBVC CIT 091, CIT 092, courses are already articulated with CRY-ROP and SBCUSD.

5. Coordination of Pathways with secondary and transfer post-secondary Transfer

Most of the courses in this certificate transfers to CSU or UC.

6. Other Information

None at this time.