

IMPERIAL VALLEY COLLEGE
PROGRAM REVIEW COMPLIANCE FORM AND REQUEST FOR RESOURCES

PROGRAM/DEPARTMENT CIS

ACADEMIC YR. 2012-2013

Comprehensive Program Review

Annual Assessment

Request for Resources (check all that apply)

Please analyze your Program Review data as well as your SLO/SAO assessment findings in order to update to your Comprehensive Program Review report as needed. All changes to area needs and subsequent requests for additional resources must be reported at this time.

If your program is scheduled for a Comprehensive Program Review all forms are to be completed and submitted to the appropriate Dean/VP. If you are completing the annual Program Review Assessment only and have no changes to area needs, sign below and submit this form to appropriate Dean/VP. If your needs have changed as a result of your annual assessment of program review data, please complete the appropriate Request for Resources form(s) and submit to appropriate Dean/VP.

Craig M. Bluh
Signature of Program Chair/Director

2/15/13
Date

[Signature]
Signature of Area Dean

2/20/13
Date

[Signature]
Signature of Area Vice President

2/28/13
Date

Please attach the following documents to this Program Review Compliance form if you are requesting additional resources:

- ✓ Comprehensive Program Review
- ✓ Data Analysis Form
- ✓ SLO/SAO Assessments
- ✓ Request for Resources Forms

Academic Program Evaluation – COMPUTER INFORMATION SYSTEMS
Division – EWD
Department - Business

CIS COURSES

TERM	Enrollment	Fill Rate	# of Sections	Mass Cap	Avg. Class Cap	Avg. Class Size	FTEs	FTEF	Productivity (FTEs/FTEF)	Completion Rate	Success Rate
Fall 2009	851	93.11%	31	914	29.48	27.45	66.67	4.05	16.46	86%	65%
Spring 2010	837	90.39%	32	926	28.94	26.16	67.59	4.45	15.19	87%	71%
Fall 2010	858	89.94%	31	954	30.77	27.68	64.25	4.58	14.03	86%	59%
Spring 2011	870	86.40%	34	1007	29.62	25.59	69.48	4.75	14.63	87%	63%
Fall 2011	530	86.46%	19	613	32.26	27.89	50.53	3.21	15.74	90%	65%
Spring 2012	529	78.72%	21	672	32	25.19	50.96	3.75	13.59	90%	64%
% Change Fall Semesters 09 - 11	-7.14%	-38.71%	-32.93%	9.43%	1.60%	-24.21%	-20.74%	-4.37%	4.65%	0.00%	0.00%
% Change Spring Semesters 10 - 12	-12.91%	-34.38%	-27.43%	10.57%	-3.71%	-24.60%	-15.73%	-10.53%	3.45%	-9.86%	0.00%

PROGRAM COMPLETION

Number of certificates completed Between Fall 2009 and Spring 2012	Number of Associate Degrees Completed Between Fall 2009 and Spring 2012
14	28

COMPUTER INFORMATION SYSTEMS - A.S AND CERTIFICATE

A.S. DEGREE – Required Courses: BUS 210, CIS 101

Select 6 units from : CIS 202, 210, MATH 130

Select 7 units from: BUS 154,156, CIS 102, 104, 107, 108, 110, 121, 125, 128, 130, 131, 137, 149, 155, 202, 210, 212, 214, WE 201, 202

COMPUTER INFORMATION SYSTEMS – ENROLLMENT, FILL RATE & WAIT LISTS

COURSES	Course Cap	Enrollment - # Sections						Fill Rate						S 13
		F 09	S 10	F 10	S 11	F 11	S 12	F 09	S 10	F 10	S 11	F 11	S 12	
BUS 126	32	87 - 3	89 - 3	84 - 3	86 - 3	79 - 3	78 - 3	89.69%	94.68%	86.60%	91.49%	81.44%	82.98%	2
BUS 210	30	112 - 4	63 - 2	127 - 4	95 - 3	114 - 4	76 - 3	80%	100%	90.71%	90.48%	81.43%	72.38%	3
BUS 220	35	24 - 1	58 - 2	32 - 1	58 - 2	42 - 1	39 - 2	68.57%	82.86%	91.43%	82.86%	120%	55.71%	
BUS 260	28		53 - 2	29 - 1	20 - 1	33 - 1	19 - 1		98.15%	103.57%	71.43%	94.29%	67.86%	14
CIS 101	32	298 - 9	244 - 8	279 - 10	243 - 9	282 - 10	216 - 8	98.68%	141.86%	88.01%	140.46%	85.20%	82.13%	9
CIS 104	28		23 - 1		29 - 1				75.00%		103.57%			
CIS 110														
CIS 124	40	80 - 3	60 - 2	98 - 3	93 - 3	38 - 1	63 - 2	102.56%	113.21%	105.38%	169.09%	95%	78.75%	9
CIS 125	40	50 - 3	40 - 2	84 - 3	63 - 3	25 - 1	26 - 1	64.10%	74.07%	90.32%	66.32%	62.50%	65%	
CIS 128														
CIS 137	29	30 - 1		26 - 1		29 - 1		107.14%		92.86%		100%		
CIS 155	29		32 - 1		31 - 1		29 - 1		106.67%		103.33%		100%	
CIS 160														
CIS 202	28		29 - 1		27 - 1		28 - 1		103.57%		96.43%		100%	2
CIS 210	28	30 - 1	24 - 1	26 - 1	28 - 1	28 - 1	19 - 1	107.14%	85.71%	92.86	89.29%	100	71%	
CIS 212	28	32 - 1		27 - 1		21 - 1		114.29%		96.43%		75%		
CIS 214	29		26 - 1		20 - 1		14 - 1		86.67%		71.43%		48.28%	
CS 170	24		25 - 1		16 - 1		18 - 1		104.17%		66.67%		75.00%	
CS 270														
WE 201	30		29 - 1	23 - 1	30 - 1	33 - 1	28 - 1		96.67%	76.67%	100%	110%	93.33%	2
WE 220	30		22 - 1	15 - 1	18 - 1	25 - 1	18 - 4		73.33%	50%	60%	83.33%	60%	

COMPUTER INFORMATION SYSTEMS – PRODUCTIVITY (FTES/FTEF)

COURSE	FTES						FTES						PRODUCTIVITY					
	F 09	S 10	F 10	S 11	F 11	S 12	F 09	S 10	F 10	S 11	F 11	S 12	F 09	S 10	F 10	S 11	F 11	S 12
BUS 126	8.95	9.16	8.64	8.85	8.12	8.03	0.60	0.60	0.60	0.60	0.60	0.60	14.92	15.27	14.40	14.75	13.53	13.38
BUS 210	6.34	10.80	21.76	16.29	19.54	13.03	1.08	0.54	1.08	0.81	1.08	0.81	5.87	20.00	20.15	20.11	18.09	16.09
BUS 220	4.11	9.94	5.49	9.94	7.2	6.69	0.27	0.54	0.27	0.54	0.27	0.54	15.22	18.41	20.33	18.41	26.67	12.39
BUS 260		5.45	5.49	2.06	3.39	1.95		0.40	0.20	0.20	0.20	0.20		13.63	27.45	10.30	16.95	9.75
CIS 101	30.65	25.10	28.7	24.98	29	22.1	1.80	1.60	2.00	1.80	2.00	1.60	17.03	15.69	14.35	13.88	14.50	13.81
CIS 104		2.37		2.98				0.20		0.20				11.85		14.90		
CIS 110																		
CIS 124	2.74	2.06	3.36	3.19	1.3	2.16	0.21	0.14	0.21	0.21	0.07	0.14	13.05	14.71	16.00	15.19	18.57	15.43
CIS 125	1.72	1.37	2.88	2.16	0.86	0.89	0.21	0.14	0.21	0.21	0.07	0.07	8.19	9.79	13.71	10.29	12.29	12.71
CIS 128																		
CIS 137	3.09		2.67		2.98	3.29	0.20		0.20		0.20		15.45		13.35		14.90	
CIS 155		3.29		3.19		2.98		0.20		0.20		0.20		16.45		15.95		14.90
CIS 160																		
CIS 202		2.98		2.78		2.88		0.20		0.20		0.20		14.90		13.90		14.40
CIS 210	3.09	2.47	2.67	2.57	2.88	1.95	0.20	0.20	0.20	0.20	0.20	0.20	15.45	12.35	13.35	12.85	14.40	9.75
CIS 212	3.29		2.78		2.16		0.20		0.20		0.20		16.45		13.90		10.80	
CIS 214		2.67		2.06		1.44		0.20		0.20		0.20		13.35		10.30		7.20
CS 170		4.29		2.74		3.09		0.20		0.20		0.20		21.45		13.70		15.45
CS 270																		
WE 201		0.99	0.79	1.03	1.13	0.96		0.07	0.07	0.07	0.07	0.07		14.14	11.29	14.71	16.14	13.71
WE 220		2.64	2.64	2.16	3.00	2.16		0.07	0.07	0.07	0.07	0.28		37.71	37.71	30.86	42.86	7.71

COMPUTER INFORMATION SYSTEMS – COMPLETION & SUCCESS RATES

COURSE	Completion Rate						Success Rate					
	F 09	S 10	F 10	S 11	F 11	S 12	F 09	S 10	F 10	S 11	F 11	S 12
BUS 126	66%	51%	79%	80%	82%	83%	39%	35%	56%	53%	56%	53%
BUS 210	87%	81%	86%	86%	77%	86%	56%	62%	74%	70%	62%	64%
BUS 220	88%	83%	97%	85%	86%	82%	63%	60%	97%	61%	81%	72%
BUS 260		92%		100%		74%		83%		95%		58%
CIS 101	81%	78%	84%	84%	85%	91%	57%	59%	53%	53%	59%	56%
CIS 104												
CIS 110												
CIS 124	90%	98%	91%	95%	87%	86%	78%	90%	76%	81%	68%	67%
CIS 125	86%	90%	83%	87%	92%	81%	62%	75%	51%	64%	68%	69%
CIS 128												
CIS 137	83%		85%		76%		33%		65%		59%	
CIS 155		84%		84%		90%		69%		61%		66%
CIS 160												
CIS 202		76%		78%		71%		69%		63%		64%
CIS 210												
CIS 212	72%		89%		86%		53%		70%		62%	
CIS 214		88%		80%		100%		77%		65%		93%
CS 170		72%		69%		89%		56%		44%		72%
CS 270												
WE 201		97%	91%	83%	85%	82%		90%	83%	70%	64%	79%
WE 220		95%	93%	67%	92%	89%		95%	93%	67%	84%	89%

Recent Enrollment Demand: High _____ Medium X _____ Low _____

Projection for Future Demand : Growing _____ Stable Declining _____

Opportunity Analysis: (Successes, new curriculum development, alternative delivery mechanisms, interdisciplinary strategies, etc.)

The Computer Information Systems program provides students with education and training to qualify for jobs such as PC Service Center Technician, Field Technician, Help Desk Technician, PC Network Support Technician, and Programmer. The program also provides the lower division coursework for advanced degrees. The LMI 2008-2018 data indicate jobs will be available for students in the program, such as computer specialists are projected to increase 25%, from 80-100 jobs. Network and computer systems administrators are projected to increase 33%, from 30-40 jobs.

In addition, according to the Centers of Excellence (COE) Environmental Scan for Information and Communications Technologies (ICT), Phase One Overview, September 2009, San Diego-Imperial Region, San Francisco Bay Region, and Orange County Region at <http://www.coecc.net/> : "The Bureau of Labor Statistics (BLS) estimates that employment in computer systems design and related services will grow nearly 40% and account for almost one-fourth of all new jobs created over the next five years. The scan also indicted that the Computer and Information Technology labor market information has not been adequately studied, despite its importance to the California economy. According to the scan, "ICT encompasses all rapidly emerging, evolving and converging computer, software, networking, telecommunications, Internet, programming and information systems technologies. Employment in ICT occupations spans across industries and firms of all sizes.

The COE report also states that traditional labor market analysis for ICT occupations across industries is a complicated endeavor because of the factors listed above. Industry representatives indicated that workforce studies which are focused on ICT related job functions, instead of job titles, would be more valuable. The COE, working with the Mid-Pacific ICT Center and its network of industry and community advisors, developed a set of ICT-related job functions as the framework that will guide future research efforts. Training for the CIS program at Imperial Valley College specifically falls within the functions listed below:

Function

Deploy and Support End User ICT Devices

Description

Setting up users with the ICT devices they use (computers, phones, PDAs, cell phones, printers, etc.)

Deploy and Support 3rd Party ICT Applications	Setting up organizations and users with the 3rd party applications they use on their computing and communications devices (Computer operating systems, MS Office, email, database programs, CRM, call center, etc.)
Deploy and Support Networks and Systems for Communications	Setting up and managing infrastructure and systems for communication between people and devices.
Deploy and Support Data Storage Systems	Setting up systems to store, backup and restore electronic data, including disaster recovery, SANs, NAS, iSCSI, etc.
Secure ICT Devices, Systems and Networks	Securing devices, spaces, websites, networks, storage and other ICT systems
ICT Wiring and Physical Plant	Installing and managing the physical infrastructure over which communications take place, - wires, fiber, poles, towers, conduits, etc.
Programming and Software Development	Designing and writing programs for computing and communications devices.
ICT Technical Writing	Documenting ICT related systems and processes and writing about activities and developments in the ICT field.
ICT-Related Technical Sales	Developing customer relationships and solutions
ICT Systems Analysis and Design	Collecting requirements, understanding solution elements and their constraints and designing systems and processes to meet needs

Summary of Program "Health" Evaluation: (Including consideration of size, score, productivity and quality of outcomes)

The student retention rate in Computer Information Systems courses averages at 86 percent. The average success rate in Computer Information Systems courses averages at 70 percent. A number of factors need to be considered for the retention

and success rates. For example, transfer students generally are required to take CIS 101. The required nature of this course can be attributed to the higher retention rate in this course. However, the lower success rate is also partially accounted for by the same reason. Since students are required to take this course, they are not always very strongly motivated to do well in the course. Furthermore, many students take CIS 101 in their first year of enrollment at IVC. Generally students in their first year of college often do not do as well as more experienced students, and further they are not as academically skilled at the self-assessment needed to determine their actual standing in a course and thus might erroneously elect to stay in a course they are in danger of failing in lieu of dropping. Finally, the course is often taken by students who are still taking basic skills level courses in English. Since the content of the CIS 101 course is at the beginning college reading and writing skill level, these basic skill students often struggle with the course reading and assignments. On the other hand, we see that success and retention rates for students who take CIS courses that are not mandated by all majors have acceptable success rates.

Student Learning Outcomes and Program Learning Outcomes

Course	units	# SLOs Identified	Spring 2012	Fall 2012	Spring 2013	Fall 2013	Spring 2014	Fall 2014	Spring 2015	Fall 2015	Spring 2016
BUS 210	4	4	1,2,3	1							
CIS 101	3	3	2	3							
CIS 202	3	3									
CIS 210	3	3	2	3							

Student Learning Outcomes Assessment:

All SLO's in the program have been assessed at least once. The department continues to monitor, assess and update SLO's as necessary.

Program Learning Outcomes Assessment:

The PLO's for the Computer Information Systems program were written with good intentions, but for a number of reasons proved to be less useful than we had hoped. Therefore, in Fall 2012, the Department rewrote all Program Learning Outcomes and will begin assessing **these** new outcomes with the Spring 2013 semester.

Future Goals of Program

We are looking into updating the program. Course updates and revisions will be made as necessary as well as possible program revisions to keep it up to date. We are looking into becoming a Microsoft IT Academy. Allowing students to become Microsoft certified in a wide variety of areas should bring more students into the CIS, CISCO and Multimedia programs.

Resource requests from annual program review

1. We use the Visual Studio Express Suite in CIS 210 and may need to upgrade this software next year.
2. This program like all the programs in the Business Department needs full-time secretarial support. The recent 50% cut in secretarial services it is creating additional difficulties for the program. Without proper staff support it is even harder for the program to grow and prosper.