Colorado State University – Pueblo Academic Program Assessment Report for AY 2012-2013	Due: June 1, 2013
Program: BS - CIS Date: M	lay 28, 2013
Completed by: Juyun (Joey) Cho	
Assessment contributors (other faculty involved in this program's assessment): Rick Huff, James Ma, Wi Erin Frew, Bruce Raymond	ayne Martinez, Tonia San Nicolas-Rocca,
Please complete this form for <u>each undergraduate, minor, certificate, and graduate program</u> (e.g., B.A., B copy any addenda (e.g., rubrics) and paste them in this document, and return it to Erin Frew, <u>erin.frew@</u> @	
attachment before June 1, 2013. You'll also find the form at the assessment website at <a href="http://www.colos">http://www.colos</a>	

#### I. Program student learning outcomes (SLOs) assessed in this cycle, processes, results, and recommendations.

<u>pueblo.edu/Assessment/Resources/Pages/default.aspx</u>. Thank you.

A. Which of the	B. When	C. What	D. Who was	E. What is	F. What	G. What were the	H. What
program SLOs	was this	method was	assessed?	the	were the	department's	changes/improvements
were assessed	SLO last	used for	Please fully	expected	results of the	conclusions about	to the <u>program</u> are
during this	assessed?	assessing the	describe the	achievement	assessment?	student	planned based on this
cycle? Please		SLO? Please	student	level and		performance?	assessment?
include the		include a copy	group.	how many			
outcome(s)		of any rubrics		students			
verbatim from		used in the		should be at			
the assessment		assessment		it?			
plan.		process.					
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Comments:

Since spring 2012, CIS faculty have diligently worked on creating new CIS learning objectives, a curriculum map, and rubrics for newly created learning objectives. The CIS department used the same learning objectives and rubrics as other disciplines in HSB. But Dean Raymond thought it would be better for CIS to have different learning objectives and rubics from other HSB disciplines because of the uniqueness of our program and as part of the preparation for joining the AACSB (Association to Advanced Collegiate Schools of Business). On the convocational week of spring 2012, CIS faculty discussed the learning objectives of each CIS core course. We listed learning objectives described on the syllabus of each course and came up with four common learning objectives for all the core courses, which were led to our new CIS program learning objectives (see an attached leaning objectives file). After we completed our program learning objectives, we created a curriculum map to pair up learning objectives with each course and discussed artifacts to assess the matched learning objective(s) (see an attached curriculum map file). Finally, we created rubrics for three learning objectives (see attached rubrics file) based on our peer institution's examples and the business rubrics distributed at the workshop led by Mary Allen in September 2012. We have not utilized the rubrics yet but we will have a pilot test at the beginning of fall, 2013 to see if there are any items need to be adjusted.

One thing we would like to mention is that we have conducted senior exit survey in spring 2013 (see senior exit survey file) and we will discuss the survey results in our first CIS faculty meeting in fall, 2013.

# B. Follow-up (closing the loop) on results and activities from previous assessment cycles. In this section, please describe actions taken during this cycle that were based on, or implemented to address, the results of assessment from previous cycles.

A. What SLO(s) did you address?	B. When was this SLO last assessed?	C. What were the recommendations for change	D. Were the recommendations for	E. What were the results of the changes? If the changes were not
Please include		from the previous	change acted upon? If not,	effective, what are the next steps or
the outcome(s)		assessment?	why?	the new recommendations?
verbatim from				
the assessment				
plan.				
N/A	N/A	N/A	N/A	N/A

Comments: Please see the comments above.

#### **CIS Learning Objectives**

At the conclusion of the CIS program, students will demonstrate the ability to:

Objective 1. Analyze, design, implement, and maintain an information system.

Objective 2. Communicate clearly in writing and speaking.

Objective 3. Work effectively as a team member for a common purpose.

Objective 4. Identify ethical issues and provide alternatives or solutions.

	1 - Analyze, Design	2 - Written/Oral	3 - Team Skills	4 - Ethics
CIS 100				
Intro to Word & Windows				
CIS 103				
PowerPoint & Web Publishing				
CIS 104 Excel Spreadsheets				
CIS 105 MS Access DBMS				
CIS 150		x (I)		x (I)
Computer Information Systems		Research Paper		Case Study
CIS 171 Intro to Java Programming	c,d (I) homework			
CIS 185	a,d (I)	x (I)	х	
PC Architecture	in-class lab exercise	Oral Presentation		
CIS 240	a,b (I)	x (D)	x (I)	
Object-Oriented Analysis and Design	Homework, Exam, case problems	Homework -written	Team Case Studies	
CIS 271	b,c,d (D)		x (D)	
Adv. Program Design with Java	Project		No artifact	
CIS 289	a,b (D)	x (D)		x (D)

a. analyze, b. design, c. implement, d. maintain

I: Introductory, D: Developing, M:Mastery

CIS 100, 103, 104, and 105 are core for all business students

it's not suitable to include them in CIS student-only assessm

	Case Projects	Paper,		Exam
Network Concepts		Presentation		
CIS 311	a,b,c,d (D)		x (D)	
Introduction to	Individual Project,		Group Project	
Web Development	Group Project			
CIS 315	c,d (D)			x (D)
UNIX Operating	Homework, Exam,			No artifact
System	quiz			
CIS 350	a,b,c (D)	x (D)	x (D)	x (D)
	Quiz, Homework,	Project Report,	Peer Review	No artifact
Database Systems	Exam, Project	Presentation		
CIS 432	a,b,c,d (M)	x - written (M)	x (M)	x (M)
Senior	Team Semester	Team Project	Semester	future Case
Professional	Project	Document	Project	Study
Project				
CIS 493		x (M)		x (M)
		Resume		future Case
Senior Seminar				Study

# CIS Learning Objectives 1: Analyze, design, and implement and maintain an information system April 16, 2013

Date:			
Rater:	Course:	Student:	

Evaluation Criteria	Exceeds Expectations	Meets Expectations	Needs Improvement	Score
Analysis	Shows strong ability to identify what an Information System should do	Shows some ability to identify what an Information System should do	Often fails to identify what an Information System should do	
Design	Shows strong ability to identify how components of an Information System should be implemented and integrated	Shows some ability to identify how components of an Information System should be implemented	Often fails to identify how components of an Information System should be implemented	
Implementation and Maintenance	Shows strong ability to implement, test, debug, and deploy an error-free & completely functioning Information System	Shows some ability to implement, test, debug, and deploy implement an error-free & completely functioning Information System	Often fails to implement, test, debug, and deploy an error-free & completely functioning Information System	

# CIS Learning Objectives 3: Work effectively as a team member for a common purpose April, 19 2013

Date:			
Rater:	Course:	Student:	

Attending team meetings       Rarely attends team meetings. Attendance record is haphazard and inconsistent; may be absent or late without notice       Attends most team meetings. If likely to be absent or late, informs others ahead of time       Actively participates in discussions, letting others provide the direction         Participating meeting discussions       Observes passively and says little or nothing       Participates in discussions, letting others provide the direction       Actively participates in discussions and asks questions         Participating nonmeeting discussions, i.e. emails, online chatting, or phone calls       Rarely responds to team project related discussions others provide the direction       Participates in discussions, letting or initiates discussions and project related communication         Leadership       Lets others set and pursue the agenda       Takes some part in setting group goals and agendas       Takes a large part in setting group goals and agendas         Understanding of project concepts       Has limited understanding of the project concepts       Occasionally introduces the information or asks questions       Listens actively and shows understanding by paraphrasing or by acknowledging and	<b>Evaluation Criteria</b>	Exceeds Expectations	Meets Expectations	Needs Improvement	Score
record is haphazard and inconsistent; may be absent or late, informs others ahead of time  Participating meeting discussions    Descripating meeting discussions   Descripation discussions   Descripation discussions   Descripation discussions   Descripation discussions, letting others provide the direction   Descripation discussion and asks questions      Participating non-meeting discussions, letting others provide the direction   Descripation discussions   Descripation discu	Attending team	Rarely attends team	Attends most team	Attends all team	
inconsistent; may be absent or late without notice  Participating meeting discussions  Observes passively and says little or nothing  Participating non-meeting discussions, i.e. emails, online chatting, or phone calls  Leadership  Lets others set and pursue the agenda  Understanding of project concepts  inconsistent; may be absent of the without notice  Participates in discussions, letting others provide the direction  Participates in discussions discussions, letting others provide the direction  Actively participates in or initiates discussions and project related communication  Takes some part in setting group goals and agendas  Takes a large part in setting group goals and agendas  Listens actively and shows understanding by paraphrasing or by	meetings	meetings. Attendance	meetings. If likely to be	meetings without being	
Participating meeting discussions    Dittle or nothing   Discrete passively and says discussions   Description		record is haphazard and	absent or late, informs	late	
Participating meeting discussions little or nothing Observes passively and says little or nothing Observes passively and says little or nothing Observes passively and says little or nothing Others provide the direction Observes of the agenda Observes passively and says others provide the direction Observes passively and saks questions Observes passively and setting group goals and agendas Observes passively and shows understanding by paraphrasing or by		inconsistent; may be absent	others ahead of time		
discussions little or nothing discussions, letting others provide the direction direction  Participating nonmeeting discussions, i.e. emails, online chatting, or phone calls  Leadership Lets others set and pursue the agenda  Understanding of project concepts  Listens actively and shows understanding by paraphrasing or by  discussions, letting of others provide the discussions and project related communication  Takes some part in setting group goals and agendas  Listens actively and shows understanding by paraphrasing or by		or late without notice			
Participating non- meeting discussions, i.e. emails, online chatting, or phone calls  Leadership  Lets others set and pursue the agenda  Understanding of project concepts  Participates in discussions, letting others provide the direction  Actively participates in or initiates discussions and project related communication  Takes and pursue these set and pursue the agenda  Takes some part in setting group goals and agendas  Uncasionally introduces the information or asks questions  Listens actively and shows understanding by paraphrasing or by	Participating meeting	Observes passively and says	Participates in	Actively participates in	
Participating non- meeting discussions, i.e. emails, online chatting, or phone calls  Leadership  Lets others set and pursue the agenda  Understanding of project concepts  Lets limited understanding of project concepts  direction  Participates in discussions, letting or initiates discussions and project related communication  Takes some part in setting group goals and agendas  Occasionally introduces the information or asks questions  Actively participates in or initiates discussions and project related communication  Communication  Takes a large part in setting group goals and agendas	discussions	little or nothing	discussions, letting	discussion and asks	
Participating non- meeting discussions, i.e. emails, online chatting, or phone calls  Leadership  Lets others set and pursue the agenda  Understanding of project concepts  Participates in discussions, letting or initiates discussions others provide the direction  Takes some part in setting group goals and agendas  Takes a large part in setting group goals and agendas  Listens actively and shows understanding by questions  Lets others set and pursue the agenda  Takes some part in setting group goals and agendas			others provide the	questions	
meeting discussions, i.e. emails, online chatting, or phone calls  Leadership Lets others set and pursue the agenda  Understanding of project concepts  Project related discussions others provide the direction  Takes some part in setting group goals and agendas  Takes a large part in setting group goals and agendas  Listens actively and shows understanding by questions  paraphrasing or by			direction		
i.e. emails, online chatting, or phone calls  Leadership Lets others set and pursue the agenda  Understanding of project concepts  Has limited understanding of the project concepts  Tokes some part in setting group goals and agendas  Coccasionally introduces the information or asks questions  Lets others set and pursue the agenda  Takes some part in setting group goals and agendas  Listens actively and shows understanding by paraphrasing or by	Participating non-	Rarely responds to team	Participates in	Actively participates in	
chatting, or phone callsdirectioncommunicationLeadershipLets others set and pursue the agendaTakes some part in setting group goals and agendasTakes a large part in setting group goals and agendasUnderstanding of project conceptsHas limited understanding of the project conceptsOccasionally introduces the information or asks questionsListens actively and shows understanding by paraphrasing or by	meeting discussions,	project related discussions	discussions, letting	or initiates discussions	
Calls       Lets others set and pursue the agenda       Takes some part in setting group goals and agendas       Takes a large part in setting group goals and agendas         Understanding of project concepts       Has limited understanding of the project concepts       Occasionally introduces the information or asks questions       Listens actively and shows understanding by paraphrasing or by	i.e. emails, online		others provide the	and project related	
Leadership Lets others set and pursue the agenda  Understanding of project concepts  Lets others set and pursue the agenda  Takes some part in setting group goals and agendas  Coccasionally introduces the information or asks questions  Listens actively and shows understanding by paraphrasing or by	chatting, or phone		direction	communication	
the agenda setting group goals and agendas setting group goals and agendas  Understanding of project concepts the project concepts the project concepts questions setting group goals and agendas  Listens actively and shows understanding by paraphrasing or by	calls				
Understanding of project concepts  Has limited understanding of the project concepts  the project concepts  the project concepts  agendas  Coccasionally introduces the information or asks questions  understanding by paraphrasing or by	Leadership	Lets others set and pursue	Takes some part in	Takes a large part in	
Understanding of project concepts  Has limited understanding of the project concepts  the project concepts  the project concepts  questions  Listens actively and shows understanding by paraphrasing or by		the agenda	setting group goals and	setting group goals and	
project concepts the project concepts the information or asks questions shows understanding by paraphrasing or by			agendas	agendas	
questions paraphrasing or by	Understanding of	Has limited understanding of	Occasionally introduces	Listens actively and	
	project concepts	the project concepts	the information or asks	shows understanding by	
acknowledging and			questions	paraphrasing or by	
				acknowledging and	
building on others'				building on others'	
ideas				ideas	

Contributing to the	Does not fulfill own share	Carries own share of	Carries own share of
final deliverables. i.e.		the group's	the group's
report, powerpoint,		responsibilities	responsibilities, and
etc			organizes or helps
			organize final
			deliverables

### CIS Learning Objectives 4: Identify ethical issues and provide alternatives or solutions

#### April 19, 2013

Date:		
Rater:	Course:	Student:

<b>Evaluation Criteria</b>	Exceeds Expectations	Meets Expectations	Needs Improvement	Score
Identify ethical issues	Identifies critical and any additional ethical	Identifies the critical ethical issues	Identifies no critical ethical issues	
	issues			
Identify alternative	Identifies multiple	Identifies an	Identifies no	
solutions	alternative solutions	alternative solution	alternative solutions	
Supply appropriate solutions	Provides multiple appropriate solutions	Provides an appropriate solution	Provides no appropriate solutions	

### CIS Senior Exit Survey Computer Information Systems Program Spring 2013

The Computer Information Systems (CIS) Department is interested in your perception of the utility of the education you have received from Colorado State University - Pueblo, specifically in the CIS program. The primary focus of this assessment is on the content and delivery of courses you completed in the CIS Department. Your responses to the following items will have a direct impact on the CIS program and CIS course offerings. The results of this survey will be summarized (your individual response will NOT be identified) and go directly to the CIS program coordinator and the CIS faculty for purposes of evaluation and possible improvements to the CIS curriculum and program.

#### **CIS Program Learning Objectives**

Please respond to each of the following items by circling your answer.

Item	Strongly Strongly	Somewha	at	Somewha	t
	Agree Disagree	Agree	Neutral	Disagree	
I feel my CIS degree has adequately taught/prepared me for the following areas:					
Analyze, design, implement, and maintain an information system	5	4	3	2	1
Communicate clearly in writing and speaking	5	4	3	2	1
Work effectively as a team member for a common purpose	5	4	3	2	1

Identify ethical issues and provide	5	4	3	2	1
alternatives or solutions					

# **Preparation for a Career in CIS**

Please respond to each of the following items by circling your answer.

Item	Strongly Strongly	Somewha	Somewhat		
	Agree Disagree	Agree	Neutral	Disagree	
I feel my CIS degree has adequately prepared me for a job in the CIS field.	5	4	3	2	1
I feel confident in my ability to be successful in a CIS job.	5	4	3	2	1
I have learned everything I need to know to be a good employee in a CIS job.	5	4	3	2	1
Overall, I feel I have the skills and abilities necessary for a successful career in CIS.					
	5	4	3	2	1

# **Course Quality and Utility**

Please circle your response in each category of Quality and Utility. If you did not take the course described, cross out the course description and leave the response blank.

course described, cross out the course	course described, cross out the course description and leave the response blank.							
Course Description	Quality: The level of quality in course content and instruction.			Th the ins	Utility: The level of usefulness of the course content and instruction to your future career.			
	High Low Quality Quality		Averag Quality		Lov Ut	igh v ility lity	Avera Utili	
Intro to Word & Windows	5	4	3	2	5	5 4	3	2
PowerPoint & Web Publishing	1		2		1		2	
Excel Spreadsheets	5 1	4	3	2	1	5 4	3	2
MS Access DBMS	5	4	3	2	1	5 4	3	2
	5	4	3	2	1	5 4	3	2
Computer Information Systems	5	4	3	2	1	5 4	3	2
Intro to Java Programming	5	4	3	2		5 4	3	2
PC Architecture	5	4	3	2	1	5 4	3	2
Object-Oriented Analysis & Design	1	4	3	<i>L</i>	1	, <del>-1</del>	3	<i>2</i>
Adv. Program Design with Java	5	4	3	2	1	5 4	3	2
Network Concepts	5	4	3	2	1	5 4	3	2
Intro. to Web Development	5	4	3	2		5 4	3	2
UNIX Operating Systems	5	4	3	2	1	5 4	3	2
Database Systems	1	4	3	4	1	, 4	3	4
Senior Professional Project	5	4	3	2	1	5 4	3	2
	5	4	3	2		5 4	3	2

Senior Seminar	1				1			
Advanced Programming w/ C#	5 1	4	3	2	5	4	3	2
IT Security	5	4	3	2	5	4	3	2
Network Systems Admin	5	4	3	2	5	4	3	2
Internet Server-Side Programming	5	4	3	2	1 5	4	3	2
IT Security Management	1				1			
Computer Forensics	5 1	4	3	2	5 1	4	3	2
Cooperative Education/Internship	5	4	3	2	5	4	3	2
Other Courses:	5	4	3	2	5	4	3	2
Principles of Management	1 5	4	3	2	1 5	4	3	2
Project Management	1	•	3	2	1	7	3	2
Business Communications	5	4	3	2	5 1	4	3	2
Other								
(describe):	5	4	3	2	5	4	3	2
Other	1 5	4	3	2	1 5	4	3	2
(describe):	1	•	3	2	1	•	3	2
Other	5	4	3	2	5	4	3	2
(describe):	5	4	3	2	5	4	3	2
Other	1	•		_	1	-		-
(describe):	5	4	3	2	5	4	3	2
Other	5	4	3	2	5	4	3	2
(describe):	1	7	3	4	1	•	3	4
	5	4	3	2	5	4	3	2
	5	4	3	2	5	4	3	2
	1	7	3	<b>4</b>	1	7	3	<i>≟</i>

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Please respond to each of the following questions:	
What were the most valuable things you received from your CIS education at CSU-Pueblo?	
If you could change ONE thing about the CIS program/department/faculty to improve the quality of student learning or learning outcomes it delivers, what would it be?	
Discuss any other improvements that you feel should be made to the CIS	
curriculum/program/faculty to improve the quality of the student learning experience:	

Please list any topics/courses you feel should be included in the CIS program that are not currently taught, or any approaches to teaching you feel should be included:
THANKS for your feedback!
Your perspective on the CIS program will have a direct and immediate impact on the quality of the program.