

Program-Level Assessment: Annual Report

Program Name (no acronyms): Computer Information	Department:								
Systems									
Degree or Certificate Level: BS Program	College/School: Professional Studies								
Date (Month/Year): July 2023	Assessment Contact: John Buerck								
In what year was the data upon which this report is based collected? 2022-20223									
In what year was the program's assessment plan most recently reviewed/updated? 2023									
Is this program accredited by an external program/disciplinary/specialized accrediting organization or subject to state/licensure requirements? No									
If yes, please share how this affects the program's assessment process (e.g., number of learning outcomes assessed, mandated exams or other assessment methods, schedule or timing of assessment, etc.): N/A									

1. Student Learning Outcomes

Which of the program's student learning outcomes were assessed in this annual assessment cycle? (Please provide the complete list of the program's learning outcome statements and **bold** the SLOs assessed in this cycle.)

LO 3 = Communicate effectively with a range of audiences about technical information.

LO4 = Make informed judgments in computing practices based on legal and ethical principles.

2. Assessment Methods: Artifacts of Student Learning

Which artifacts of student learning were used to determine if students achieved the outcome(s)? Please describe the artifacts in detail, identify the course(s) in which they were collected, and if they are from program majors/graduates and/or other students. Clarify if any such courses were offered a) online, b) at the Madrid campus, or c) at any other off-campus location.

LO3

CIS1375 – Final Project CIS2300 – Final Project CIS2850 – Final Project CIS4100 – Final Project CIS4800 – Final Project

LO4

CIS1375 — Final Project CIS2300 — Final Project CIS3150 — Final Project CIS4100 — Final Project CIS4800 — Final Project

3. Assessment Methods: Evaluation Process

What process was used to evaluate the artifacts of student learning, and by whom? Please identify the tools(s) (e.g., a rubric) used in the process and **include them in/with this report document** (please do not just refer to the assessment plan).

Instructors have outcomes set up and added to their artifact rubric vis Canvas outcomes. At the end of their courses, a Canvas Outcomes report was run to collect data about student performance and artifacts used to assess learning outcomes. Data was used to analyze and make changes as needed to assessment of learning outcomes.

4. Data/Results

What were the results of the assessment of the learning outcome(s)? Please be specific. Does achievement differ by teaching modality (e.g., online vs. face-to-face) or on-ground location (e.g., STL campus, Madrid campus, other off-campus site)?

The Canvas outcomes reported that many of the artifacts had properly assessed student learning outcomes for their specific courses, but some minor adjustments might be needed; which will be explained further in section 5 of this report. Most instructors used final projects as their assessment tool and felt it was appropriate for the type of students in these classes.

More specifically, we found the following for each LO:

LO 3 – 139 total artifacts assessed

- Meets Standard Student shows ability to demonstration knowledge of 70 students met this level
- Approaches Standard Student shows ability to demonstration knowledge of 22 students met this level
- Does Not Meet Standard Student does *not* demonstrate knowledge of 6 students met this level
- Did not report = 41

LO 4 – 51 total artifacts assessed

- Meets Standard Student shows ability to demonstration knowledge 32 students met this level
- Approaches Standard Student shows ability to demonstration knowledge of 2 students met this level
- Does Not Meet Standard Student does *not* demonstrate knowledge of 0 students met this level
- Did not report = 17

All courses were taught online, so there is no difference in teaching modality to note

5. Findings: Interpretations & Conclusions

What have you learned from these results? What does the data tell you? Address both a) learning gaps and possible curricular or pedagogical remedies, and b) strengths of curriculum and pedagogy.

As discussed in section 4, the data has largely supported that the learning outcomes have been supported by the artifacts chosen. With this said, faculty are not all reporting assessment data in Canvas. This has prompted administration to reflect with all faculty directors in SPS to come up with a school wide plan moving forward.

Solution summary = Dr. Matt Grawitch is in the process of developing a school wide assessment tool that will be implemented in fall of 2023. This new assessment tool will more strictly monitored by program directors.

6. Closing the Loop: Dissemination and Use of Current Assessment Findings

A. When and how did your program faculty share and discuss the results and findings from this cycle of assessment?

An ad-hoc discussion around course delivery and evaluation was had with selected CIS adjunct faculty. As an outcome, all agreed that the program is delivering an applied and up-to-date program of study to the students.

It was, however, stressed that all faculty will need to report tangible data this coming year to support our discussion.

- B. How specifically have you decided to use these findings to improve teaching and learning in your program? For example, perhaps you've initiated one or more of the following:
 - Changes to the Course content Curriculum or
 - Teaching techniques
 - Pedagogies

Changes to the

Assessment Plan

- Improvements in technology
- Prerequisites
 - Student learning outcomes
 - Artifacts of student learning
 - Evaluation process

- Course sequence
- New courses
- Deletion of courses
- Changes in frequency or scheduling of course offerings
- Evaluation tools (e.g., rubrics)
- Data collection methods
- Frequency of data collection

Please describe the actions you are taking as a result of these findings. At this time, there are no changes to the program.

If no changes are being made, please explain why.

The CIS BS program is scheduled to go through a program review starting in the fall of 2023.

7. Closing the Loop: Review of Previous Assessment Findings and Changes

A. What is at least one change your program has implemented in recent years as a result of previous assessment data?

Over the past two years, Dr. Joe Lyons has stepped in as the Interim Director of the CIS program as I was moved to Interim Dean in the school. Because of this interim role, no real changes were implemented.

B. How has the change/have these changes identified in 7A been assessed? Please see the response to 7A.

C. What were the findings of the assessment? N/A

D. How do you plan to (continue to) use this information moving forward?

New Assessment / Data Collection Method: Dr. Matt Grawitch is in the process of developing a school wide assessment tool that will be implemented in fall of 2023. This new assessment tool will more strictly monitored by program directors.

IMPORTANT: Please submit any assessment tools (e.g., artifact prompts, rubrics) with this report as separate attachments or copied and pasted/appended into this Word document. Please do not just refer to the assessment plan; the report should serve as a stand-alone document. Thank you.

CIS1375 Final Project Rubric

ou've already rated students with this rubric. Any major changes could	affect their assessment results.										
Criteria				Ratings				Pts			
HTML tag	2 pts Excellent Tag used correctly.		s ds Improvement used incorrectly.			0 pts Below Expectations Missing.		2 pts			
Header bar tag	2 pts Excellent Tag used correctly.		s ds Improvement used incorrectly.		2 pts						
Title tag	2 pts Excellent Tag used correctly.		s ds Improvement used incorrectly.		0 pts Below Expectations Missing.						
Body tag	2 pts Excellent Tag used correctly.		s ds Improvement used incorrectly.		0 pts Below Expectations Missing.		2 pts				
Paragraph tag	2 pts Excellent Tag used correctly.		s ds Improvement used incorrectly.			0 pts Below Expectations Missing.		2 pts			
Single-spaced return tag	2 pts Excellent Tag used correctly.		s ds Improvement used incorrectly.			0 pts Below Expectations Missing.	Below Expectations				
Horizontal rule tag	2 pts Excellent Tag used correctly.		s ds Improvement used incorrectly.			0 pts Below Expectations Missing.					
Heading tag	2 pts Excellent Tag used correctly.		s ds Improvement used incorrectly.			0 pts Below Expectations Missing.					
Bold text tag	2 pts Excellent Tag used correctly.		s ds Improvement used incorrectly.			0 pts Below Expectations Missing.					
Italic text tag	2 pts Excellent Tag used correctly.		ots reds Improvement g used incorrectly.			0 pts Below Expectations Missing.	2 p				
List tag	2 pts Excellent Tag used correctly.		eds Improvement g used incorrectly.			0 pts Below Expectations Missing.	2 p				
Link tag	2 pts Excellent Tag used correctly.		eds Improvement g used incorrectly.			0 pts Below Expectations Missing.	2 p				
Colors	4 pts Excellent Two or more additional text or background colors used.			2 pts Needs Improvement One additional text	t or background color used.		0 pts Below Expectations. Black text only.	4 p			
Media	4 pts Excellent Relevant media properly embedded.		nprovement as no relevance to topic or	has not been properly	embedded.		0 pts Below Expectations No media.	4 p			
Theme	10 pts Excellent HTML document submitted with a coherent theme, relevant to wisdo	om or a topi	ic covered in this class.	Need	5 pts 0 pts Needs Improvement Below Expectati HTML document lacks a coherent theme relevant to coursework. Incorrect docum						
Polished product	8 pts Excellent Polished product is free of grammatical, spelling, and typographical e	rrors.			4 pts Needs Improvement Typographical errors are	distracting.	0 pts Below Expectations Multiple stylistic errors.	8 p			
CIS SLO 1 An ability to analyze a problem, and to identify and define the computing requirements appropriate to its solution. threshold: 50 pts	5 pts Meets Standard - Considers the various options to utilize in solving and choose the most appropriate one and justify its selection.	0 pts Does Not Meet Standard - Considers problem, and choose the most approp	the various options to utilize in solving a oriate one and justify its selection.								

CIS2300 Final Project Rubric

CIS2300 Final Project Rubric (1) (1)

Criteria	Ratings									
Titles and Headings	5 to >4.0 pts Excellent Appropriate titles created, merged and centered, Non-default font color appli	2 to >0 pts Below Expectations Few edits made to titles and headings.								
Cell Formatting	10 to >9.0 pts Excellent Non-standard font and font size used throughout. Appropriate number/text f	ed as directed.	4 to >0 pts Below Expectations Few cells formatted as direct							
Part 1 Formulas	10 to >9.0 pts Excellent Correct formulas entered, as directed.		0 pts r Expectations ormulas entered correctly.							
Solver	10 to >9.0 pts Excellent Objective cell, changing cells, and constraints correctly entered into Solver. A	Bel	>0 pts ow Expecta / Solver valu	tions es correctly entered.	10 p					
Part 1 Analysis	15 to >14.0 pts Excellent Clear, detailed description of the problem and recommended solution, written	ements or lacks	larity.	7 to >0 pts Below Expectations Insufficient problem analysis.	15 p					
Part 2 Formulas	To to >9.0 pts Excellent Totals and averages correctly calculated and labeled. Conditional formatting rules (data bars or color scales) correctly applied. Totals and/or averages calcula								ts xpectations are incorrect or missing.	10 p
Charts	15 to >14.0 pts 14 to >7.0 pts 14 to >7.0 pts Needs Improvement Needs Improvement Needs Improvement Most charts created correctly with appropriate labels, legends, and titles.								>0 pts w Expectations ts are missing or incomplete.	15 p
Part 2 Analysis	15 to >14.0 pts Excellent Determination of which store should be closed is clearly written in complete sentences, using proper English grammar and spelling, and supported by the data. Additional data needed for further analysis is explained.								7 to >0 pts Below Expectations Insufficient problem analysis.	15 p
Finishing Touches	Excellent Needs Improvement B AutoFit applied to columns. Cover sheet provided with student name, course name, and date. Image inserted onto cover sheet. All sheets named appropriately with sheet tabs								4 to >0 pts Below Expectations Few finishing touches applied.	10 p
CIS 5LO 3 An ability to communicate effectively with a range of undiences about technical information. hreshold: 5.0 pts	5 pts 3 pts 3 pts Approaches Standard - Student communicates technical information clearly and consistent, but without supporting material. 0 pts Dees Not Meet Standard - Student does not communicate technical information clearly and consistent, but without supporting material.									

CIS2850 Final Exam

This course uses the Pearson StatCrunch tool for the final exam.

CIS3150 Final Project Rubric

CIS3150 Final Case You've already rated stude	Study Rubric ents with this rubric. Any major changes could affect their assessment results.							∿Q @			
Criteria	Ratings										
SFNO Process	10 to >9.0 pts Excellent Complete SFNO analysis applied to the case.	9 to >4.0 pts Needs Improvemen SFNO analysis cont	t ains minor omissions or errors	4 to >0 pts Below Expectation SFNO analysis con			tions contains major omissions or errors.				
Character Analysis	10 to >9.0 pts Excellent All 5 characters are examined using facts from the case.	9 to >4.0 pts Needs Improvement Examines most characters u	sing facts from the case.		4 to >0 pts Below Expectations Examines few characters in detail.	10 pts					
Summary	5 pts Excellent Summary clearly explains student opinion of the outcome based on facts from the case		2.5 pts Needs Improvement Summary is incomplete.	0 pts Below Expec Summary is n		sistent with the facts of the case.	5 pts				
Clarity	5 pts Excellent Opinions and ideas clearly stated. No errors with writing style or mechanics.	2.5 pts Needs Improve Ideas are clearly		and/or punctuation errors are distracting.		0 pts Below Exper Difficult to u	tations nderstand due to grammar, spelling, and/or writing style.	5 pts			
	Total Points: 3										

CIS4100 Final Project Rubric

Final Exam 🔺

This exam consists of 25 true false and multiple choice questions to test your comprehension of the material from the course.

CIS4800 Final Project Rubric

Capstone Project Paper Submiss	ion 🚜										Published	N Edit	
The Paper - We have base building the Capatore Project Paper throughout weeks 2 - 7 and at this point is in pain intering the last section called the Edective gumma/ 4 - Work have been building the Capatore Project Paper throughout weeks 2 - 7 and at this point is in pain intering the last section called the Edective gumma/ 5 - Work have the Edective Section of the Capatore Paper throughout weeks 2 - 7 and at this point is in pain intering the last section of pure Paper throughout weeks 2 - 7 and at this point is in pain intering the last section of pure Paper throughout weeks and the Capatore Paper throughout weeks 2 - 7 and at this point is in pain intering the last section of pure Paper throughout weeks and the Capatore Paper throughout weeks and the													
Points 60 Submitting a file upload													
Due	For Available from Unit												
Мау 10	Everyone										÷		
Capstone Project Report Rubric You've already rated students with this rubric. Any major charges could	affect their assessment results.											0	Qŵ
Criteria						Ratings						F	Pts
Problem Statement	30 pts Exemplary Committees the ability to build a persuasive and insightful problem statement, identifies target autience and/or tonetclaries.	55 pt Profider Demonstrates adequate knowledge of the subject by building a comprehensive problem statement, identifies target audiroce and/or beneficiaries.				10 pts Competent Domenstrates some knowledge of the subject by building a problem statement that is superficial, identifies target audience and to beneficiaries.			perficial, identifies most of the	Sipts Novice Demo fails to	a sutrates inadequate innovindge of the subject by building a problem that is general and vague lidentify target audience.	ı, 20	0 pts
Problem Aculysis	29 pt Bannylay Doministration through analysis of the problem and possible solutions by examining portforest sources watery of portpectives, applies involving or protect management and computing ability related to the hand, identifies a solution that is appropriate and insightful.									Spts Novke Reposes a single solution that fails to address the problem statement and demonstrates understanding of the topic, fails to demonstrate knowledge of project management and computing concepts related to the problem.	little 24	0 pts	
Proposed Solution	20 pts Exemptary Memfres an interesting, distinct, and manageable solution based on proper analysis of the problem; di the solution addresses a need in the community and/or initiates to caritinuing professional development				ution that addresses the subject from a personal perspective; is how the solution meets community or personal needs.	10 pt: Compatent Intelligible as solution that is either too narrow or too wide in scope and needs to be further diveloped, reflection needs to be ancauraged to address how the solution meets community or personal meets.			S pice Notice Pisit is identify a topic and needs to further investigate further subject leadu/possibilities, reflection needs to be encouraged to address how the solution meets community or personal needs.		21	0 pts	
CIS SLO 1 An ability to analyze a problem, and to identify and define the computing requirements appropriate to its solution. threshold: 10 ps	5 pits Meets Standard - Considers the various options to utilize in solving a problem, and choose the most appropriate one and justify its selection.				2 pt/s Approaches Standard: Selection an appropriate solution to a problem, were'r Its connectness and evaluate its effecthemess. Den Net Heat Stan					Net Meet Standard - Considers the various options to utilize in solving a problem, and choose the most appropriate one and justify its selection.			
CIS SLD 2 An ability to design, implement, and evaluate a computer-based solution to meet a given set of computing requirements in the context of the discipline. travelouit.10 ps	5 pis Meets Standard: Student shows shilly to apply all computing requirements to artifact given rubbic requirements.									0 gts Decs Not Meet Standard - Student does not show ability to apply computing requirements to a titlact.			
© CIS SLO 3 An ability to communicate effectively with a range of audiences about technical Information.	5 pts				idard - Student communicatos technical information clearly an	wt without supporting material.	0 pis Does Not Most Standard - Student does not communicate technical information clearly and consistent with the supporting material.						
CIS SED 4 An ability to make informed judgments in computing practice based on legal and ethical principles. threshold: 50 pre	5 pts Meth Standard - Stadent can make informed jadgments in ethical issues when issues are presented in a complex, multi-layered context.				3 pts Agenuaches Standard - Studiorit can apply some ethical concepts to an ethical question and the application is accurate.				0 pts Does Not Meet Standard - Student can recognize back and obeloos ethical issues but fails to grasp complexity or interrelationships.				
© CIS SLD 5 An ability to function effectively on teams to establish goals, plan tacks, meet doublines, manage risk, and produce ditherables. (ABET 5) Uneduit 10 pix	Syste Syste Sector 2 Andree - Process on the task and what needs to be done at all times. Other group members can court on this person.				3 ptb Approaches Standard: Often Index to, shares with, and supports the effects of others, but sumetimes dises not careb bate to the proop as readed. Does Nat Heat Standard Does Nat Heat Standard					Net Randurd - Randy provides useful ideas when participating in the group projects and ior online discussions.			
											1	otal Points	s: 60