



Program Name	Date Completed
Computer Information Systems	May 20, 2026
Report Completed By	Report Contributors
Dr. Juyun (Joey) Cho	Drs. Roberto Mejias, Kuang-Yuan Huang, Roohid Syed
Brief Statement of Program Mission and Goals	
<p>HSB Mission statement:</p> <p>The mission of the Hasan School of Business at Colorado State University-Pueblo is "We transform students, innovate in teaching, conduct ourselves with professionalism, and engage with and positively impact our stakeholders."</p> <ul style="list-style-type: none"> • Transform: We welcome students from a broad spectrum, including many from lower socio-economic strata, under-represented populations, and first-generation students. The core of our mission is affecting positive changes in our students so that they are prepared as business professionals. • Innovation: We seek to improve and implement the best practices. We also work to encourage innovation at our university and in regional business, government and non-profit organizations. • Professionalism: We are recognized in the community for our professionalism. We hold ourselves to high performance standards of collegiality and ethical behavior. We seek to inspire the same in our students. • Engagement: We connect with students, alumni, employers, community members and other stakeholders to work together and to share knowledge. We build student skills through active learning, experiential education, and collaborations with businesses and community members. • Impact: We make ongoing campus and community contributions through a variety of service activities. Our research has positive effects on organizational knowledge and practice. Graduates of the Hasan School of Business are a critical component of Pueblo's economic infrastructure, while many make contributions in other cities, states, and countries. 	

Table I Closing the Loop

Report on at least one data-informed change to your curriculum during AY 2025-2026 that was implemented to improve student learning, in response to prior assessment cycles or other data.



A. Describe issues or SLOs addressed in the AY 2025-2026 cycle. Paste SLOs verbatim below.

SLOs addressed:

- 1. In Spring 2026, we assessed SLO 3a – Participate effectively in planning, executing, and delivering team projects (Data were collected from CIS460, Cyber Security and Defense)

CIS SLOs:

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

- 1. Analyze, design, implement, and maintain an information system.
 - 1a. Analyze problems and design information system solutions to the problems
 - 1b. Implement and maintain information system solutions
- 2. Communicate clearly and effectively in writing and speaking.
 - 2a. Use and Produce high quality written communication
 - 2b. Effectively use oral communication
- 3. Work effectively as a team member for a common purpose.
 - 3a. Participate effectively in planning, executing, and delivering team projects**
- 4. Identify ethical issues and provide alternatives or solutions.
 - 4a. Identify ethical issues and recommend appropriate solutions

B. In which prior academic year and semester was this SLO last assessed to generate data that informed the change(s) this year?

Fall 2022

C. What were the recommendations for change in the previous cycle?

In the previous cycle, we assessed SLO 2a and the results were:

Subject Matter Knowledge: 100% of students met either “exceeds expectations” or “meets expectations”.

Literacy (grammar, spelling, punctuation): 88% of students met either “exceeds expectations” or “meets expectations”.

Logical Flow: 89% of students met either “exceeds expectations” or “meets expectations”.

Proper References: This part was not assessed.

The Recommendation was:

No additional actions are needed currently; however, continued monitoring of students' written communication skills is necessary.

D. How were the recommendations for change acted upon?

No changes were recommended.



E. How did the change(s) implemented impact student learning? If the change was not effective, what are the next steps or new recommendations?

No changes were implemented based on the reasons outlined in Section C.

Enter Comments on Table I Closing the Loop Below

Fall 2023, SLO 1a - **82%** of students evaluated met either “exceeds expectations” or “meets expectations.” This is higher than the result of the previous assessment in 2021 (77.3% of the students met or exceeded expectations.)

Fall 2023: SLO 1b – **100%** of students evaluated met either “exceeds expectations” or “meets expectations.” This is much higher than the result of the previous assessment in 2021 (77.3% of the students met or exceeded expectations.)

Spring 2024: SLO 2b - **80%** of students evaluated met either “exceeds expectations” or “meets expectations.” This is higher than the result of the previous assessment in 2022 (75% of the students met or exceeded expectations.)

Spring 2025: SLO - **92%** of students evaluated met either “exceeds expectations” or “meets expectations.” This is higher than the result of the previous assessment in 2022 (69% of the students met or exceeded expectations.)



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Table II Annual assessment of Student Learning Outcomes (SLOs) in AY 2025-26

1. Include information to share assessment processes, results, and recommendations for improved student learning. Copy this table for each assessed outcome.

A. Program SLO(s) assessed in this cycle. Copy the SLOs verbatim from the assessment plan.
<p>Assessment of SLO 3a took place in Spring 2026.</p> <p>CIS SLOs:</p> <p>At the conclusion of the CIS program, students will demonstrate the ability to:</p> <ol style="list-style-type: none"> 1. Analyze, design, implement, and maintain an information system. <ol style="list-style-type: none"> 1a. Analyze problems and design information system solutions to the problems 1b. Implement and maintain information system solutions 2. Communicate clearly and effectively in writing and speaking. <ol style="list-style-type: none"> 2a. Use and Produce high quality written communication 2b. Effectively use oral communication 3. Work effectively as a team member for a common purpose. <ol style="list-style-type: none"> 3a. Participate effectively in planning, executing, and delivering team projects 4. Identify ethical issues and provide alternatives or solutions. <ol style="list-style-type: none"> 4a. Identify ethical issues and recommend appropriate solutions
B. Semester and year this SLO was previously reported on before this cycle.
Fall 2022
C. Describe the assessment method for this SLO(s).
For assessment purposes, the confidential peer review surveys from CIS 460, Cyber Security and Defense, were collected and provided to CIS faculty members. These faculty members each conducted an individual evaluation of the peer review surveys utilizing the rubrics located at the end of this document.
D. Described student group(s) assessed. Provide the number of students or number of artifacts assessed.
21 Student in CIS 460, Cyber Security and Defense



E. Explain the expected proficiency level and proportion of students who should reach this level.
Our expected proficiency level is that at least 80% of students will meet or exceed expectations (where achievement levels are: Need Improvement, Meet Expectation, and Exceed Expectation, in ascending order).
F. Provide Assessment results and number of students who met defined proficiency level.
<p>SLO 3a Assessment Results:</p> <p>Attending Team Meetings: 90% of students met either “exceeds expectations” or “meets expectations”.</p> <p>Participating in meeting discussions: 100% of students met either “exceeds expectations” or “meets expectations”.</p> <p>Participating in non-meeting discussions: 95% of students met either “exceeds expectations” or “meets expectations”.</p> <p>Leadership: 100% of students met either “exceeds expectations” or “meets expectations”.</p> <p>Understanding of project concepts: 100% of students met either “exceeds expectations” or “meets expectations”.</p> <p>Contributing to the final deliverables: 100% of students met either “exceeds expectations” or “meets expectations”.</p> <p>The overall percentage of students meeting or exceeding expectations is 97.5% whereas in previous assessments was 100% in fall 2022.</p>
G. Describe what the results or trends indicate about student performance.
The assessment of teamwork using rubrics described in section F revealed that students achieved above the 80% proficiency target.
H. Describe program level changes/improvements planned for next AY (2026-2027?) which are informed by this assessment.
No additional actions are needed currently; however, continued monitoring of students' teamwork skills is necessary.

Enter Comments on Table II AY 2026 Assessment Below
No additional comments are entered.

Appendix A

Rubric for evaluating the CIS SLO 3a: Participate effectively in planning, executing, and delivering team projects

Evaluation Criteria	Exceeds Expectations	Meets Expectations	Needs Improvement
Attending team meetings	Attends all team meetings without being late	Attend most team meetings. If likely to be absent or late, inform others ahead of time	Rarely attend team meetings Attendance record is haphazard and inconsistent; may be absent or late without notice
Participating in meeting discussions	Actively participates in discussion and asks questions	Participate in discussions, letting others provide the direction	Observes passively and says little or nothing
Participating in non-meeting discussions, i.e. emails, online chatting, or phone calls	Actively participates in or initiates discussions and project related communication	Participate in discussions, letting others provide the direction	Rarely responds to team project related discussions
Leadership	Takes a large part in setting group goals and agendas	Takes some part in setting group goals and agendas	Let others set and pursue the agenda
Understanding of project concepts	Listens actively and shows understanding by paraphrasing or by acknowledging and building on others' ideas	Occasionally introduces the information or asks questions	Has limited understanding of the project concepts
Contributing to the final deliverables. i.e. report, PowerPoint, etc.	Carries own share of the group's responsibilities, and organizes or helps organize final deliverables	Carries own share of the group's responsibilities	Does not fulfill own share



Appendix B

CIS 460 Confidential Peer review survey instructions:

CIS 460: CYBER SECURITY & DEFENSE
CONFIDENTIAL Peer Evaluation of Each Team Member
SPRING, 2026

Your Name: _____

Your Team No. / Name _____

Please rate and submit individual assessments for each of your peer team members on the following items.

Ratings should be one of the following three categories:

1. Exceed Expectations (Place EE in the following table)
2. Meet Expectations (Place ME in the following table)
3. Needs Improvement (Place NI in the following table)

Ideally, your ratings should not be surprising to the other members of the group. **Individual peer ratings are confidential and will not be shared with your other team members**



**Academic Program Assessment
AY 2025-2026 [Due 6/1/26]**

Team Member Name	<u>Attending team meetings</u>	<u>Participating meeting discussions</u>	<u>Participating non-meeting discussions, i.e. emails, online chatting, or phone calls</u>	<u>Leadership</u>	<u>Understanding of project concepts</u>	<u>Contributing to the final deliverables. i.e. report, PowerPoint, etc.</u>
Team Member 1 Name						
Team Member 2 Name						
Team Member 3 Name						
Team Member 4 Name						



Appendix C

Updated CIS curriculum map

CIS Outcomes	PROBLEM SOLVING (Analyze, design, implement, and maintain an information system)		COMMUNICATION (Communicate clearly in writing and speaking)		TEAM SKILLS (Work effectively as a team member for a common purpose)	ETHICAL AWARENESS (Identify ethical issues and provide alternatives or solutions)
	1.1	1.2	2.1	2.2	3.1	4.1
Sub-Goals						
CIS Core	Analysis and Design	Implementation & Maintenance	Written	Oral	Participation & Contribution	Identify ethical issues and recommend solutions
CIS 120 Intro to Programming with Python	Introductory	Introductory				
CIS 150 Computer Ethics and Society	Introductory	Introductory	Introductory	Introductory	Introductory	Introductory
CIS 171 Intro to Java Programming		Introductory				
CIS 210 Intro to Cyber Security	Introductory	Introductory	Introductory	Introductory	Introductory	
CIS 240 Object-Oriented Analysis and Design	Introductory	Introductory		Introductory	Introductory	Introductory
CIS 250 Intro to Business Analytics	Introductory	Introductory	Introductory	Introductory	Introductory	
CIS 271 Adv. Program Design with Java	Developing	Developing	Developing	Developing	Developing	
CIS 289 Network Concept	Deveolping	Introductory	Deveolping	Developing	Developing	Developing
CIS 311 Intro to Web Development	Developing	Developing	Developing	Developing	Developing	
CIS 315 Linux Fundamentals	Developing	Developing				
CIS 350 Database Management	Developing	Developing	Developing	Developing	Developing	
CIS 432 Senior Professional Project	Developing/ Mastering	Developing/ Mastering	Developing/ Mastering	Developing/ Mastering	Developing/Mastering	Developing/Mastering
CIS 493 Seminar	Mastering		Mastering			Mastering