

**Report of Student Learning and Achievement
Concordia University Irvine
School of Arts and Sciences – Computer Science Program**

For Academic Year:	2025-2026
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School of Arts and Sciences Mission
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Computer Science Program Purpose

The School of Arts & Sciences fosters the virtues of curiosity, courage, and humility in our students, thereby preparing them for their vocations in service to others. This is accomplished within the Lutheran liberal arts tradition by engaging with many enduring questions while relying upon the truth found in Jesus Christ.

The School of Arts and Sciences teaches a majority of the Q&I general education offerings of the university and monitors the courses, majors, minors, and professional programs through its different departments for the purpose of developing "wise, honorable, and cultivated citizens" in a variety of fields of study.

The Computer Science Bachelor of Science develops student analytic and algorithmic abilities to investigate, formulate, analyze, and articulate solutions to problems in the design, development, and analysis of computer hardware and software in both theoretical and practical contexts while seeking to further their knowledge of God's world.

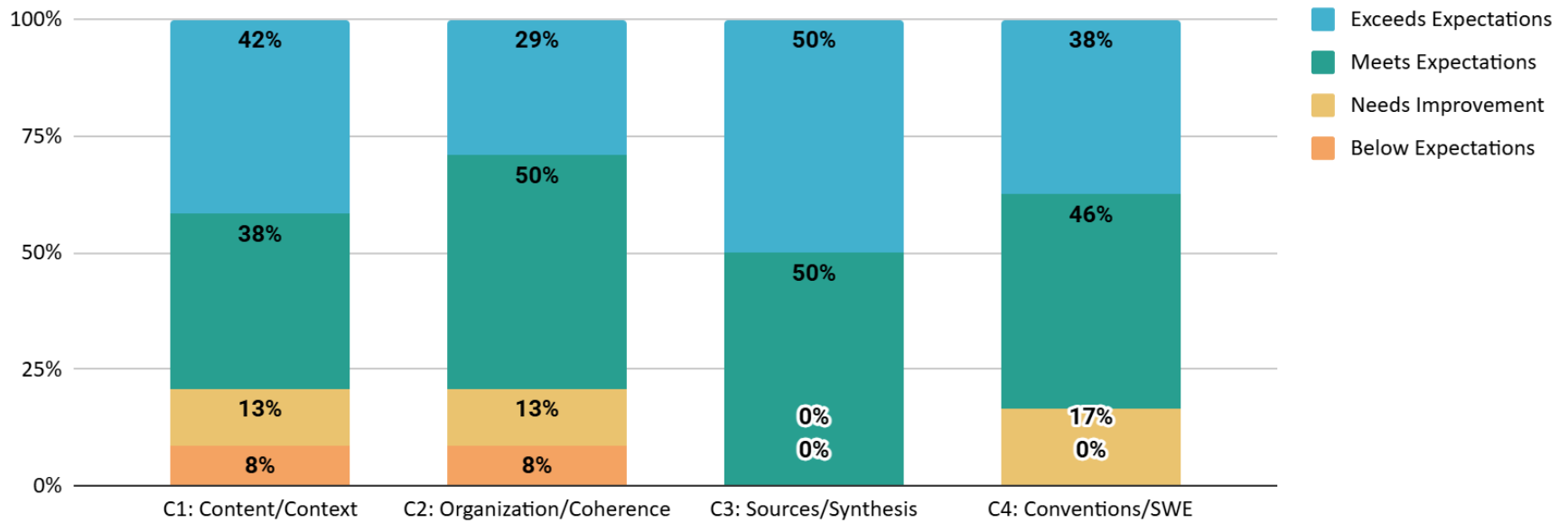
Program Learning Outcomes (PLOs)

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| 1. Create and implement software systems that meet specific design and performance requirements. |
| 2. Apply algorithmic, mathematical, and scientific reasoning to a variety of computational problems. |
| 3. Analyze, articulate, and apply scholarly resources to integrate best practices in the discipline of computer science. |
| 4. Cultivate the Christian teaching of vocations to make wise, informed judgements and practice ethical, honorable decision making in computer science. |
| 5. Demonstrate effective written and oral communication skills in computer science. |
| 6. Function effectively as a gracious and helpful member or leader of a team. |

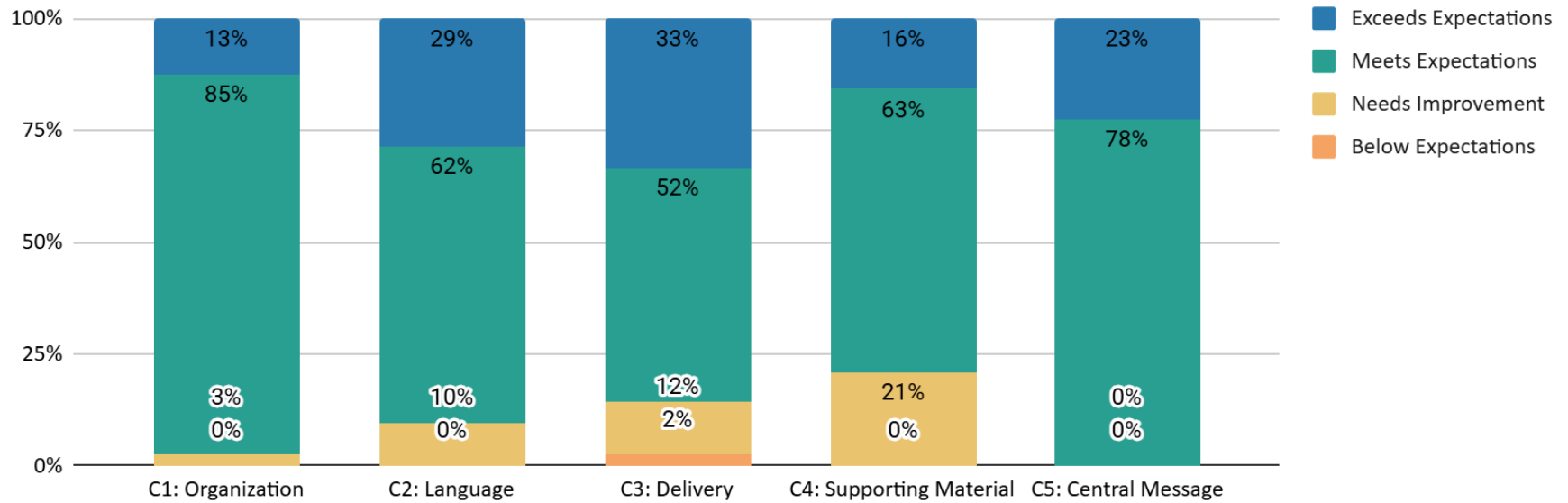
Program Assessment Overview Aligns with ULO: Written Communication / Oral Communication			
PLOs Assessed	Evidence and Assessment Instrument	Performance Objectives (Targets/Criteria) Measures:	Results for Measures of Student Learning:
PLO #5: Demonstrate effective written and oral communication skills in computer science.	CSC 495/6 Senior Project - Capstone Software Presentations (Oral Communication) CSC 322 Software Engr - Maintenance, Care, and Troubleshooting Guide (Written Communication) CSC 428 Info Security - Cyber Defense Paper and Presentation (Written Communication and Oral Communication)	At least 75% achievement in all rubric areas used	Written Communication Percentage of students who met or exceed expectations: Content / Context - 79% Organization / Coherence - 79% Sources / Synthesis - 100% Conventions / SWE - 83% Oral Communication Percentage of students who met or exceed expectations: Organization - 98% Language - 90% Delivery - 86% Supporting Material - 79 % Central Message - 100%

Program Assessment Results

Written Communication



Oral Communication



Summary of Program Assessment Findings

The assessment results demonstrate that more than 75% of students met or exceeded expectations for every criterion. For oral communication, the lowest scoring criterion was Supporting Material at 79% and the highest scoring was Central Message at 100%. Within the written communication rubric, the lowest two criteria were Organization/Coherence and Context/Context at 79%; the highest scoring criterion was Sources/Synthesis 100%.

Summary of Achievement Outcomes
Aligns with ULO: Written Communication / Oral Communication

2025-2026 PLO Assessed: Written Communication	Student Evidence: CSC 322 Software Engr - Maintenance, Care, and Troubleshooting Guide	Student Evidence: CSC 428 Info Security - Cyber Defense Paper and Presentation
Criterion Measured	Performance Target Was...	Performance Target Was...
Content / Context	Met	Met
Organization / Coherence	Met	Met
Sources / Synthesis	Met	Met
Conventions / SWE	Met	Met
2025-2026 PLO Assessed: Oral Communication	Student Evidence: CSC 495/6 Senior Project - Capstone Software Presentations	Student Evidence: CSC 428 Info Security - Cyber Defense Paper and Presentation
Criterion Measured	Performance Target Was...	Performance Target Was...
Organization	Met	Met
Language	Met	Met
Delivery	Met	Met
Supporting Material	Met	Met
Central Message	Met	Met

Program Proposed Course of Action for Improvement in Learning Outcomes

To address the findings from this assessment, the department plans to add new opportunities for students to practice effective communication. These assignments should be early in the term within select lower-division classes. Students should be encouraged to seek feedback on their drafts and faculty will provide feedback on the submitted work. In the past, written reports and oral presentations have always occurred at the end of courses, when students had little incentive to review feedback and no opportunity to act on it. Additionally, computer science faculty have often put more effort into teaching and correcting software design than technical writing. The goal for these smaller assignments, earlier in the term, is to help students improve their communication skills before reaching the upper level courses. Faculty will support the students by adding revision cycles and more actionable feedback on the early drafts. Emphasis will be placed on proper introductions and transitions, audience awareness, and clarity in communication. These changes are intended to address the specific weaknesses identified during assessment, particularly: the abrupt writing style, limited audience adaptation, and ineffective selection of supporting materials.

The department will continue to assess the effectiveness of these changes using a variety of evidence, including: student performance (grades), student evaluations, retention rates, feedback from internship supervisors and recent graduates, peer observation, and future APLO reports. Findings will be discussed within the department and, when appropriate, in consultation with the Dean. Improvements that lead to positive outcomes will be reinforced, whereas changes with negligible or undesirable impact will be dropped.