



REPORT ON AY2022-2023 ACADEMIC ASSESSMENT

Submission date: 11/15/2023

Assessment Plan covered in the report: Computer Science BA/BS

College:

68.0%: Did not meet faculty expectations.

Outcome 5: Function effectively as a member or leader of a team engaged in activities appropriate to the discipline.

87.0%: Met faculty expectations.

Outcome 6: Apply computer science theory and software development fundamentals to produce computing-based solutions.

81.7%: Met faculty expectations.

2. Describe your assessment process for these Program Student Learning Outcomes, including the collection of data, analysis of data, and faculty and other, e.g., advisory board conversations around the findings. (1000 words or less)

Faculty teaching the below courses evaluate students based on established rubrics for each outcome. Students are evaluated as Poor, Developing, Satisfactory, or Excellent. Results are entered in a master spreadsheet for analysis and discussion by department faculty members.

Outcome 1: CSCE A401 (Software Engineering) and CSCE A470 (Capstone)

Outcome 2: CSCE A401 and CSCE A470

Outcome 3: CSCE A401 and CSCE A470

Outcome 4: CSCE A465 (Computer and Network Security)

Outcome 5: CSCE A401 and CSCE A470

Outcome 6: CSCE A351 (Automata and Algorithms)

3. What are the findings and what do they tell the faculty about student learning in your program?

person instruction, we expect this score to continue to improve for the overall exam our students ranked in the 7th percentile nationally which we rate as Satisfactory

4. Based on the findings, did the faculty make any recommendations for changes to improve student achievement of the Program Student Learning Outcomes? No
 - i. Please describe the recommended action(s) what improvements in student learning the program hopes to see, the proposed timeline, and how the program will know if the change(s) has worked. If no recommendations for changes were made, please explain that decision. (1000 words or less)
Given the strong performance

Introduction to Computer Science, as a prerequisite to CSCE A201. The goal was to reduce the high Drop/Fail/Withdraw (DFW) rates for CSCE A201 and improve student programming skills throughout the program. The following table shows DFW rates have improved (decreased) for CSCE A201 since implementing these changes in Fall 2020:

Term	DFW
SP17	48%
FA17	52%
SP18	44%
FA18	47%
SP19	45%
FA19	59%
SP20	51%
FA20	38%
SP21	27%
FA21	27%
SP22	36%
FA22	24%
SP23	33%

DEAN SECTION (Due to the program on January 15)

After completing the Dean Section and signing it, the dean should email this form to the program and copy uaa_oaa@alaska.edu for posting. If the program is delivered on one or more community campuses, the dean should consult with the appropriate community campus director(s) on the response and the appropriate community campus director(s) when emailing the response to the program.

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moving forward?(200 words or less)

We agree with the program faculty that, given that students are largely meeting faculty expectations on the SLOs, the minor changes proposed are appropriate. If student achievement of Outcome 4 continues to be low, more concerted changes may be necessary, but for now the faculty have good reason to wait and continue to monitor the situation. The program has hired faculty in recent years and is currently running another search. Bringing new faculty on board is an excellent opportunity.

to examine teaching practices and explore new ways that faculty can collaborate across the curriculum to ensure students get a good foundation. The department should also study the retention rates for CSCE A101 in addition to CSCE A201.

2. Discuss what the program is doing particularly well in terms of its processes for the assessment and improvement of student learning for example, the use of a common rubric or prompt, a signature assignment, etc (200 words or less)

We agree that the data presented for CSCE A101 in terms of the CSCE A201 pass rates are encouraging. The department is also commended for following through with the process for better documentation of meetings that was implemented in response to feedback from ABE the last academic year.

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Date: 1/15/2024