

ASSESSMENT REPORT 2017-2018

Software Systems Design BS

BSSD

Program Mission:

The general mission of the SSD Program in the Department of Media Arts & Technology is to educate students in the technical skills, theoretical underpinnings, and the sociocultural context for the field of software development. SSD seeks to inspire students to work creatively and collaboratively towards the goal of contributing to our own communities and to innovate and excel in the software landscape. Collaboration, experimentation and a drive to push the boundaries of current technology platforms.

Student Learning Outcome 1:

Students will demonstrate the ability to write object oriented code and a basic knowledge of how computer memory and architecture work in relation with their written software.

NMHU Traits Specifically Linked to Student Learning Outcome 1

- Effective Use of Technology

First Means of Assessment for Outcome 1:

SSD 340 Programming & Logic. 80% of students should be able to attain a grade of C or better on the final written exam and final programming project.

Summary of Data:

Number of Students Meeting Criterion:	0	Number of Students Not Meeting Criterion:	0
Total Number of Students Assessed:	0	Percent of Students Meeting Criterion:	N/A

Second Means of Assessment for Outcome 1:

SSD 341 Applied Algorithms and Architecture. 80% of students should be able to attain a grade of C or better on the final written exam and final hardware project

Summary of Data:

Number of Students Meeting Criterion:	4	Number of Students Not Meeting Criterion:	1
Total Number of Students Assessed:	5	Percent of Students Meeting Criterion:	80%

Interpretation of Results for Outcome 1:

Because of the high number of transfer students not needing SSD 340, it was not offered this year. Undergraduate SSD students are performing well in SSD. We met the criterion for success with 80% of students completing the course successfully. The student who did not meet requirements did not show up for the final and was not responsive to any communications from their instructors. We stress several times throughout the semester that the final is 40% of the overall grade. We have no way of knowing why this student did not attend the final or make special arrangements to retake it.

Student Learning Outcome 2:

Students will demonstrate effective essay writing and presentation skills.

NMHU Traits Specifically Linked to Student Learning Outcome 2

- Effective Communication Skills

First Means of Assessment for Outcome 2:

SSD 340 Programming & Logic. Students will write a research paper on an emerging concept in the field of software. 80% of students should be able to attain a grade of C or better.

Summary of Data

Number of Students Meeting Criterion:	0	Number of Students Not Meeting Criterion:	0
Total Number of Students Assessed:	0	Percent of Students Meeting Criterion:	N/A

Interpretation of Results for Outcome 2:

Due to the large number of transfer students this semester, no students needed SSD 340 and it was not offered.

Student Learning Outcome 3:

Students will demonstrate mastery in their area of emphasis.

NMHU Traits Specifically Linked to Student Learning Outcome 3

First Means of Assessment for Outcome 3:

SSD 334 Practicum I and SSD 434 Practicum II. Students will create a project for a client and meet deadlines as agreed upon with client, demonstrating mastery of their emphasis

area. 80% of students should be able to attain a grade of B or better.

Summary of Data

Number of Students Meeting Criterion:	4	Number of Students Not Meeting Criterion:	0
Total Number of Students Assessed:	4	Percent of Students Meeting Criterion:	100%

Interpretation of Results for Outcome 3:

Students were able to effectively communicate with their respective clients and deliver a project which satisfied their client. Implementation of a written time sheet similar to those used by the workstudy program, helped this group of students realize their time commitment and better learn how to estimate time that programming features will take.

Utilization of Results:

We will continue to use these criteria to assess the skills of SSD majors. The department will continue to raise the bar on critical thinking, writing skills, time management and professional output in conjunction with Media Arts' efforts.

Changes to Program Based on Results:

We will change outcomes involving SSD 340, to involve SSD 352 Javascript, since most undergraduates for the past 4 semesters have been transfers from CNM and have already fulfilled SSD 340, but none of them have fulfilled SSD 352. SSD 352 tests different language skills than SSD 341, so it still works well with that class to test effective use of technology. A writing and presentation assignment will be added to SSD 352 for undergraduates.

Retention Strategies:

We did not face a retention issue this semester. The only issue was in regard to the student who did not show up for the final as outlined above.