

ASSESSMENT REPORT 2018-2019

Software Systems Design BS
(Instructional Degree Program)

BSSD
(Degree Level)

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:

BSSD 3520 Javascript. 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:	3	Number of Students Not Meeting Criterion:	0
Total Number of Students Assessed:	3	Percent of Students Meeting Criterion:	100%

Second Means of Assessment for Outcome 1:

BSSD 3410 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:	2	Number of Students Not Meeting Criterion:	0
Total Number of Students Assessed:	2	Percent of Students Meeting Criterion:	100%

Interpretation of Results for Outcome 1:

We changed our means of assessment due to the previous course not making because of the high volume of transfer students already having met the requirement.

Students are performing well under the new assessment which also introduces memory management in a different way from the previous course. Next year we should implement a compare and contrast assignment so the breadth of knowledge is proven.

For assessment B we had a guest lecturer who helped implement a new type of visual presentation to convey knowledge and dissemination of hardware schematics. It also went well and will be reused when the course is offered again.

Together these courses test student proficiencies in technology across both software and hardware.

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:

BSSD 3520 Javascript. 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:	3	Number of Students Not Meeting Criterion:	0
Total Number of Students Assessed:	3	Percent of Students Meeting Criterion:	100%

Interpretation of Results for Outcome 2:

Students effectively presented research on an emerging framework in web technologies. They were asked to mirror a typical lesson from their course and compare their chosen technology to what was learned in class so other students could see the similarities.

Next year, we plan to add a requirement to find a job description asking for the technology so that students can see how the technology is being applied in the field.

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:	5	Number of Students Not Meeting Criterion:	0
Total Number of Students Assessed:	5	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 where applicable. Implementation of student created work schedules seems to be conveying the amount of work required better than previous semesters.

We did have an incident of a project disappearing and not being recoverable for awhile. Next semester we will also implement more rigorous check-in system requirements such as github which is an industry standard.