

2021-22 Student Learning Assessment Report, Academic

Program: Computer Science	Degree: Major	Department Head: Meg Fryling	Submitted By: Meg Fryling	Date Submitted: 05/21/2022
Mission: Our mission is to provide a curriculum and environment that provides students with a foundation in computer science upon which a lifetime of on-going learning and professional development can be built. We aim to develop our students' critical thinking and communication skills, preparing them for future leadership roles or the pursuit of advance degrees.				
1. Major/Program Student Learning Outcomes Students will be able to...		2. Phase		
1. Goal 1: Acquire a base of knowledge and skills in computer science upon which a lifetime of on-going learning and professional development can be built.		Collecting		
3. Assessment Procedures (Planning/ determining) Method: (ex. tests, presentations, research paper) Written exams and lab practicals exam (programming)				
Using a Sample of Students? No				
If yes, describe your sample.				
When does assessment occur? Fall and Spring				
How often does assessment occur? Seven times per year (CSIS-110 exam 1 & final exam, CSIS-120 average of 3 written exams and 2 lab practicals)				
Criteria (How do you know students are achieving learning outcome?) 75% of students should meet or exceed grade of C (70%).				
4. Assessment Results (Collecting/ analyzing)				
1) CSIS-110 Exam 1 Purpose: Assessing student understanding of data representation (written exam questions) N: 115 Goal met: 68% of students met criteria				
2) CSIS-110 Final Exam				

Purpose: Assessing student understanding of programming concepts (written exam questions)

N: 114

Goal met: 79% of students met criteria

3) CSIS-120 average of written exams and lab practical exams

Purpose: Assessing student programming proficiency and understanding of programming concepts (written exam questions and assessed programming)

N: 87

Goal met: 87% of students met criteria

Learning Outcome Met?

(Based on Criteria)

Yes

1. Major/Program Student Learning Outcomes Students will be able to...	2. Phase
2. Goal 2: Apply critical thinking skills and technology to defining, modeling, analyzing, evaluating, developing, and testing solutions to computing problems. At intermediate / advanced level in major sequence	Collecting

3. Assessment Procedures (Planning/ determining)

Method: (ex. tests, presentations, research paper)

Written exams and programming project

Using a Sample of Students?

No

If yes, describe your sample.

When does assessment occur?

Spring

How often does assessment occur?

Three times per year (CSIS-385 and CSIS-225 final exams, and CSIS-225 project)

Criteria (How do you know students are achieving learning outcome?)

75% of students should meet or exceed grade of C (70%).

4. Assessment Results

(Collecting/ analyzing)

1) CSIS-385, seven assessment questions from final exam.

Purpose: Assessing select questions focused on critical thinking and analytical problem solving

N: 29

Goal NOT met: 21% of students met criteria

2) CSIS-225, five assessment questions on final exam.

Purpose: Questions evaluating students' ability to model, analyze and evaluate computing problems

N: 34

Goal NOT met: 65% of students met goal.

3) CSIS-225 Grades for an advanced programming project, using grading rubric.

Purpose: Project demonstrating students' ability to develop and test solutions to computing problems

N: 34

Goal met: 85% of students met goal.

Learning Outcome Met?

(Based on Criteria)

No

1. Major/Program Student Learning Outcomes Students will be able to...	2. Phase
3. Goal 3: Develop teamwork skills necessary to produce technical solutions collaboratively as a member of a group. Communicate computing ideas with clarity and coherence to technical and non-technical audiences through writing and speaking. At capstone level in major sequence.	Discussing

3. Assessment Procedures (Planning/ determining)

Method: (ex. tests, presentations, research paper)

Final presentation and application documentation (knowledge transfer documents)

Using a Sample of Students?

No

If yes, describe your sample.

When does assessment occur?

Spring

How often does assessment occur?

Once per year in CSIS-415

Criteria (How do you know students are achieving learning outcome?)

At least 80% of the students should meet or exceed score of 75%

4. Assessment Results

(Collecting/ analyzing)

1) CSIS-415 presentation

Purpose: Assessing student's ability to communicate computing ideas with clarity and coherence to technical and non-technical audiences through writing and speaking.

N: 22

Goal met: 100% of students met criteria

1) CSIS-415 knowledge transfer documents (technical writing/communication)

Purpose: Assessing student's ability to communicate computing ideas with clarity and coherence to technical and non-technical audiences through writing and speaking.

N: 22

Goal met: 85% of students met criteria

Learning Outcome Met?

(Based on Criteria)

Yes