Program Plan and Findings: Four Column Layout

Program (CAS) - CS - Computer Science (MS) - 053

Program Mission Statement: 1) to pursue and to publicize research projects in computer science in order to extend the present state of knowledge in the computer field
2) to educate students in all program levels in order to provide them with the knowledge, interest, and ethics to become productive members of the computing profession
3) to serve as an initial and continuing source of education in the field of computer science

Program Information

2019 - 2020

Program Information
Assessment Coordinator's Name: Johnson P Thomas
Assessment Coordinator's E-mail Address: johnson.thomas@okstate.edu
Number of Students Enrolled in the Program: 30
Total Number of Students Graduated: 15
Number of Student Graduates from Stillwater Campus: 15
Number of Student Graduates from Tulsa Campus: 0
Were university assessment funds used by the department/program for assessment activities?: No
If yes, describe how funds were used and the contribution the funds had on the assessment process:

Annual Executive Summaries

2019 - 2020

Program Assessment Coordinator: Johnson P Thomas
Plan Review and Approval
Date Current Plan Was Reviewed and Approved:
Date of Future Plan Review and Approval:
Summary of Assessment Findings
Describe overall assessment findings and faculty members' interpretation of the assessment results: The introduction of the creative component has resulted in most of the students now taking the creative component. The current assessment rubric is implemented for the thesis format as all students were required to take the thesis until very recently. A new assessment rubric has to be introduced that caters for the creative component. The overall findings indicate that students are learning and putting into

practice in their thesis work the knowledge they have gained in the Masters program.

Dissemination of Findings

Describe the individual(s) or committee responsible for reviewing and interpreting assessment data: The graduate committee and faculty.

Describe the process for sharing and discussing assessment findings with program faculty: The graduate coordinator presents the findings to faculty at departmental meetings where the results are discussed. The findings are distributed to all faculty before the departmental meetings.

Program Improvements Based on Assessment

Based on data collected this year, what changes are being considered or planned for the program?: No changes are being considered.

Based on this year's findings, what (if any) changes are planned for the assessment process?: None

Describe the process for implementing these changes/planned program improvements: Not applicable

Program Improvements Made in the Last Year: Course Improvements

"Other" Improvements:

Goals for the Coming Year: Set up an assessment rubric for the creative component

Is this Summary Report Complete?: Yes

List all individuals associated with this report preparation: Johnson P Thomas, K M George

Outcomes	Assessment Methods	Findings	Use of Findings (Actions)
Knowledge - Reviews the literature in a way that demonstrates a comprehensive understanding of the existing research in the area of study. **Outcome Status:** Active **Planned Assessment Year:** 2016 - 2017, 2017 - 2018, 2019 - 2020 **Start Date:** **Archived Date:** **Outcome Type:** Knowledge **Reason for Archival:**	**Review of Thesis/Dissertation/Creative Component -** Evaluations were performed by the graduate committee of each student. *** Learning Outcome Goal/Benchmark:** **Timeline for Assessment:** At thesis proposal time. **Other Assessment Type:**	**Reporting Period:** 2019 - 2020 **Conclusion:** 3 - Meets Program Expectations (Proficient) Average was 3.7 (10/02/2020) **Number of Students Assessed:** 2 **Number of Successful Students:** 2 **How were students selected to participate in the assessment of this outcome?:** All students defending their thesis were assessed. **What do the findings suggest about student achievement of this learning outcome?:** The score indicates a competent to proficient level.	
Research - Identifies research questions or problems pertinent to the field of study in order to provide a focus for making a significant contribution to the field. **Outcome Status:** Active **Planned Assessment Year:** 2016 - 2017, 2017 - 2018, 2019 - 2020 **Start Date:** **Archived Date:** **Outcome Type:** Knowledge **Reason for Archival:**	Evaluations were performed by the graduate committee of each student. *** Learning Outcome Goal/Benchmark:** **Timeline for Assessment:** At thesis proposal presentation time. **Other Assessment Type:**	**Reporting Period:** 2019 - 2020 **Conclusion:** 3 - Meets Program Expectations (Proficient) Average was 3.3 (10/02/2020) **Number of Students Assessed:** 2 **Number of Successful Students:** 2 **How were students selected to participate in the assessment of this outcome?:** The score indicates a competent to proficient level. **What do the findings suggest about student achievement of this learning outcome?:** The score indicates a competent to proficient level.	
Data Analysis - Gathers, organizes,	Evaluations were performed by the	**Reporting Period:** 2019 - 2020	

Outcomes	Assessment Methods	Findings	Use of Findings (Actions)
analyses, and reports data using a conceptual framework appropriate to the research question and to the field of study. **Outcome Status:** Active **Planned Assessment Year:** 2016 - 2017, 2017 - 2018, 2019 - 2020 **Start Date:** **Archived Date:** **Outcome Type:** Skills **Reason for Archival:**	graduate committee of each student. *** Learning Outcome Goal/Benchmark:** **Timeline for Assessment:** At thesis defense. **Other Assessment Type:**	**Conclusion:** 3 - Meets Program Expectations (Proficient) Average score was 3.6 (10/02/2020) **Number of Students Assessed:** 2 **Number of Successful Students:** 2 **How were students selected to participate in the assessment of this outcome?:** All students defending their theses were assessed. **What do the findings suggest about student achievement of this learning outcome?:** The score indicates a competent to proficient level.	
Reporting - Interprets research results in a way that adds to the understanding of the field of study and relates the findings to teaching and learning. **Outcome Status:** Active **Planned Assessment Year:** 2016 - 2017, 2017 - 2018, 2019 - 2020 **Start Date:** **Archived Date:** **Outcome Type:** Knowledge **Reason for Archival:**	Evaluations were performed by the graduate committee of each student. *** Learning Outcome Goal/Benchmark:** **Timeline for Assessment:** At thesis defense. **Other Assessment Type:**	**Reporting Period:** 2019 - 2020 **Conclusion:** 3 - Meets Program Expectations (Proficient) Average was 3.4 (10/02/2020) **Number of Students Assessed:** 2 **Number of Successful Students:** 2 **How were students selected to participate in the assessment of this outcome?:** All students defending their theses were assessed. **What do the findings suggest about student achievement of this learning outcome?:** The score indicates a competent to proficient level.	
Communication - Communicates research results effectively in both written and oral forms using language appropriate to the field of study. **Outcome Status:** Active **Planned Assessment Year:** 2016 - 2017, 2017 - 2018, 2019 - 2020 **Start Date:** **Archived Date:** **Outcome Type:** Skills **Reason for Archival:**	Evaluations were performed by the graduate committee of each student. *** Learning Outcome Goal/Benchmark:** **Timeline for Assessment:** At thesis defense. **Other Assessment Type:**	**Reporting Period:** 2019 - 2020 **Conclusion:** 3 - Meets Program Expectations (Proficient) Average was 3.4 (10/02/2020) **Number of Students Assessed:** 2 **Number of Successful Students:** 2 **How were students selected to participate in the assessment of this outcome?:** All students defending their theses were assessed **What do the findings suggest about student achievement of this learning outcome?:** The score indicates a competent to proficient level.	
Research Plan - Has established a productive research agenda that prepares her/him to extend the research beyond graduate school. **Outcome Status:** Active	Evaluations were performed by the graduate committee of each student. *** Learning Outcome Goal/Benchmark:**	**Reporting Period:** 2019 - 2020 **Conclusion:** 3 - Meets Program Expectations (Proficient) Average was 3.6 (10/02/2020) **Number of Students Assessed:** 2 **Number of Successful Students:** 2	

Outcomes	Assessment Methods	Findings	Use of Findings (Actions)
Planned Assessment Year: 2016 - 2017, 2017 - 2018, 2019 - 2020 **Start Date:** **Archived Date:** **Outcome Type:** Skills **Reason for Archival:**	**Timeline for Assessment:** At thesis defense. **Other Assessment Type:**	**How were students selected to participate in the assessment of this outcome?:** All students defending their theses were assessed. **What do the findings suggest about student achievement of this learning outcome?:** The score indicates a competent to proficient level.	
Knowledge in Field - Has gained an understanding of the computer science concepts as covered in the Master of Science core courses and their prerequisites. **Outcome Status:** Active **Planned Assessment Year:** 2016 - 2017, 2017 - 2018, 2019 - 2020 **Start Date:** **Archived Date:** **Outcome Type:** Knowledge **Reason for Archival:**	Evaluations were performed by the graduate committee of each student. *** Learning Outcome Goal/Benchmark:** **Timeline for Assessment:** At thesis defense or creative component presentation time. **Other Assessment Type:**	**Reporting Period:** 2019 - 2020 **Conclusion:** 3 - Meets Program Expectations (Proficient) Average was 3.1 (10/02/2020) **Number of Students Assessed:** 2 **Number of Successful Students:** 2 **How were students selected to participate in the assessment of this outcome?:** Coursework examination is not required for students in the thesis option. This item is primarily for the creative component option and optionally exercised by each thesis student's graduate committee. **What do the findings suggest about student achievement of this learning outcome?:** 'The score indicates a competent level of understanding in core computer science concepts.	