

**Course Assessment Report  
Washtenaw Community College**

Discipline	Course Number	Title
Computer Information Systems	221	CIS 221 07/22/2019- Linux/UNIX Programming and Scripting I
Division	Department	Faculty Preparer
Business and Computer Technologies	Computer Science & Information Technology	Philip Geyer
Date of Last Filed Assessment Report		

**I. Review previous assessment reports submitted for this course and provide the following information.**

1. Was this course previously assessed and if so, when?

No

2. Briefly describe the results of previous assessment report(s).

3.

4. Briefly describe the Action Plan/Intended Changes from the previous report(s), when and how changes were implemented.

5.

**II. Assessment Results per Student Learning Outcome**

Outcome 1: Create moderately complex bash shell scripts.

- Assessment Plan
  - Assessment Tool: Exam
  - Assessment Date: Winter 2016
  - Course section(s)/other population: All
  - Number students to be assessed: All
  - How the assessment will be scored: Departmentally-developed rubric
  - Standard of success to be used for this assessment: 70% of students will score 70% or higher.

- Who will score and analyze the data: Departmental Faculty

1. Indicate the Semester(s) and year(s) assessment data were collected for this report.

Fall (indicate years below)	Winter (indicate years below)	SP/SU (indicate years below)
2017	2018, 2016	

2. Provide assessment sample size data in the table below.

# of students enrolled	# of students assessed
34	25

3. If the number of students assessed differs from the number of students enrolled, please explain why all enrolled students were not assessed, e.g. absence, withdrawal, or did not complete activity.

Students audited or dropped the course, or they did not complete the activity.

4. Describe how students from all populations (day students on campus, DL, MM, evening, extension center sites, etc.) were included in the assessment based on your selection criteria.

All students enrolled in the course for a grade and did the assignment were included.

5. Describe the process used to assess this outcome. Include a brief description of this tool and how it was scored.

The tool chosen was a 10-problem exercise, rather than items from an exam. This was to give a more comprehensive overview of performance. Revisions in exams between semesters limited their ability to be pooled.

6. Briefly describe assessment results based on data collected for this outcome and tool during the course assessment. Discuss the extent to which students achieved this learning outcome and indicate whether the standard of success was met for this outcome and tool.

Met Standard of Success: Yes  
 A 10-problem set was used for this assessment and students' overall percentages were tallied and averaged. The average of all students was 86%. 96% of the students achieved the target score of at least 70%. The target goal was met.

7. Based on your interpretation of the assessment results, describe the areas of strength in student achievement of this learning outcome.

The achievement level appears to be fine. Students' level of understanding is good.

8. Based on your analysis of student performance, discuss the areas in which student achievement of this learning outcome could be improved. If student met standard of success, you may wish to identify your plans for continuous improvement.

We would like to revise the assessment approach in the future to allow more detailed evaluation. This will allow the ability to look for specific points of weakness and strength.

Outcome 2: Create awk programs.

- Assessment Plan
  - Assessment Tool: Exam
  - Assessment Date: Winter 2016
  - Course section(s)/other population: All
  - Number students to be assessed: All
  - How the assessment will be scored: Departmentally-developed rubric
  - Standard of success to be used for this assessment: 70% of students will score 70% or higher.
  - Who will score and analyze the data: Departmental Faculty

1. Indicate the Semester(s) and year(s) assessment data were collected for this report.

Fall (indicate years below)	Winter (indicate years below)	SP/SU (indicate years below)
2017	2018, 2016	

2. Provide assessment sample size data in the table below.

# of students enrolled	# of students assessed
34	25

3. If the number of students assessed differs from the number of students enrolled, please explain why all enrolled students were not assessed, e.g. absence, withdrawal, or did not complete activity.

Students audited or dropped the course, or they did not complete the activity.

4. Describe how students from all populations (day students on campus, DL, MM, evening, extension center sites, etc.) were included in the assessment based on your selection criteria.

All students enrolled in the course for a grade and did the assignment were included.

5. Describe the process used to assess this outcome. Include a brief description of this tool and how it was scored.

The tool chosen was a 12-problem exercise, rather than items from an exam. This was to give a more comprehensive overview of performance. Revisions in exams between semesters limited their ability to be pooled.

6. Briefly describe assessment results based on data collected for this outcome and tool during the course assessment. Discuss the extent to which students achieved this learning outcome and indicate whether the standard of success was met for this outcome and tool.

Met Standard of Success: Yes

A 12-problem set was used for this assessment and students' overall percentages were tallied and averaged. The overall average was 74%. 72% of the students achieved the target score of at least 70%. The target goal was met.

7. Based on your interpretation of the assessment results, describe the areas of strength in student achievement of this learning outcome.

The achievement level appears to be acceptable. Students' level of understanding is adequate.

8. Based on your analysis of student performance, discuss the areas in which student achievement of this learning outcome could be improved. If student met standard of success, you may wish to identify your plans for continuous improvement.

We would like to revise the assessment approach in the future to allow more detailed evaluation. This will allow the ability to look for specific points of weakness and strength.

We met the target, but we should work on improving the success rate.

Outcome 3: Construct and utilize limited regular expressions.

- Assessment Plan
  - Assessment Tool: Exam
  - Assessment Date: Winter 2016
  - Course section(s)/other population: All
  - Number students to be assessed: All

- How the assessment will be scored: Departmentally-developed rubric
- Standard of success to be used for this assessment: 70% of students will score 70% or higher.
- Who will score and analyze the data: Departmental Faculty

1. Indicate the Semester(s) and year(s) assessment data were collected for this report.

Fall (indicate years below)	Winter (indicate years below)	SP/SU (indicate years below)
2017	2018, 2016	

2. Provide assessment sample size data in the table below.

# of students enrolled	# of students assessed
34	25

3. If the number of students assessed differs from the number of students enrolled, please explain why all enrolled students were not assessed, e.g. absence, withdrawal, or did not complete activity.

Students audited or dropped the course, or they did not complete the activity.

4. Describe how students from all populations (day students on campus, DL, MM, evening, extension center sites, etc.) were included in the assessment based on your selection criteria.

All students enrolled in the course for a grade and did the assignment were included.

5. Describe the process used to assess this outcome. Include a brief description of this tool and how it was scored.

The tool chosen was a 20-problem exercise, rather than items from an exam. This was to give a more comprehensive overview of performance. Revisions in exams between semesters limited their ability to be pooled.

6. Briefly describe assessment results based on data collected for this outcome and tool during the course assessment. Discuss the extent to which students achieved this learning outcome and indicate whether the standard of success was met for this outcome and tool.

Met Standard of Success: <u>Yes</u>
A 20-problem set was used for this assessment and students' overall percentages were tallied and averaged. The overall average was 78%. 76% of the students achieved the target score of at least 70%. The target goal was met.

- Based on your interpretation of the assessment results, describe the areas of strength in student achievement of this learning outcome.

The achievement level appears to be acceptable. Students' level of understanding is adequate.

- Based on your analysis of student performance, discuss the areas in which student achievement of this learning outcome could be improved. If student met standard of success, you may wish to identify your plans for continuous improvement.

We would like to revise the assessment approach in the future to allow more detailed evaluation. This will allow the ability to look for specific points of weakness and strength. We met the target, but we should work on improving the success rate.

### III. Course Summary and Intended Changes Based on Assessment Results

- Based on the previous report's Intended Change(s) identified in Section I above, please discuss how effective the changes were in improving student learning.

There was no previous report.

- Describe your overall impression of how this course is meeting the needs of students. Did the assessment process bring to light anything about student achievement of learning outcomes that surprised you?

No surprises. The course is meeting the needs of students, but there is room for improvement.

In the future, we need to develop a method that allows us to assess this course with a greater level of detail. Although we have an idea of where some improvements are needed, it would be good to do it in a more formal fashion.

- Describe when and how this information, including the action plan, was or will be shared with Departmental Faculty.

Department meeting.

- Intended Change(s)

Intended Change	Description of the change	Rationale	Implementation Date
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Other: Assessment Method	Update the assessment method and process.	To allow for more detailed evaluation of each outcome, including specific strengths and weaknesses.	2020
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5. Is there anything that you would like to mention that was not already captured?

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### III. Attached Files

[Data Summary Sheet](#)

**Faculty/Preparer:** Philip Geyer **Date:** 07/22/2019  
**Department Chair:** Philip Geyer **Date:** 07/22/2019  
**Dean:** Eva Samulski **Date:** 07/22/2019  
**Assessment Committee Chair:** Shawn Deron **Date:** 05/06/2020