

COURSE ASSESSMENT REPORT

I. Background Information

1. Course assessed:
 Course Discipline Code and Number: CPS261
 Course Title: Advanced Java Concepts
 Division/Department Codes: (CPS) Computer Science
2. Semester assessment was conducted (check one):
☒ Fall 2011__
☐ Winter 20__
☐ Spring/Summer 20__
3. Assessment tool(s) used: check all that apply.
☐ Portfolio
☐ Standardized test
☐ Other external certification/licensure exam (specify):
☐ Survey
☐ Prompt
☒ Departmental exam
☐ Capstone experience (specify):
☐ Other (specify):
4. Have these tools been used before?
☐ Yes
☒ No

If yes, have the tools been altered since its last administration? If so, briefly describe changes made. N/A

5. Indicate the number of students assessed and the total number of students enrolled in the course. 13/17 (3 students didn't complete the course).
6. If all students were not assessed, describe how students were selected for the assessment. *(Include your sampling method and rationale.) All students who took the final.*

II. Results

1. Briefly describe the changes that were implemented in the course as a result of the previous assessment.
 No previous assessment.
2. List each outcome that was assessed for this report exactly as it is stated on the course master syllabus.
 1. **Identify input/output techniques including the associated exception handling required.**
 2. **Identify graphical user interface (GUI) techniques needed to provide a good program interface for a user.**
 3. **Identify multitasking and socket programming techniques necessary to work in an internet driven world.**
 4. **Identify Java data structures and algorithms necessary for efficient programs such as trees, hashing and stacks.**

logged 1/9/12 s/s
 Approved by the Assessment Committee July 2011

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3. For each outcome that was assessed, indicate the standard of success exactly as it is stated on the course master syllabus. *For each outcome, the standard of success from the course master syllabus is:*

The standard for success will be that 70% of the students who take the exam will score better than 70%.

Briefly describe assessment results based on data collected during the course assessment. Indicate the extent to which students are achieving each of the learning outcomes listed above and state whether the standard of success was met for each outcome.

see the details in the file CPS261_Assessment_Details.docx.

4. Describe the areas of strength and weakness in students' achievement of the learning outcomes shown in the assessment results. *(This should be an interpretation of the assessment results described above and a thoughtful analysis of student performance.)*

Strengths: The first 3 outcomes: IO/Exceptions, GUI, and Tasking/sockets

Weaknesses: Data Structures – This is detailed in the CPS261 Assessment Details document.

III. Changes influenced by assessment results

1. If weaknesses were found (see above) or students did not meet expectations, describe the action that will be taken to address these weaknesses. *(If students met all expectations, describe your plan for continuous improvement.)*

Objective 4 was scored as 54.6% which was below the desired standard. In the analysis described in the "CPS261 Assessment Details" document, it was found that there were 3 bad questions, and 2 other questions touched on a topic where the students weren't adequately prepared. Without these 5 questions, objective 4 would have come in at a 68.9% success ratio which is pretty close to the desired standard.

More emphasis will be given data structures in order to improve student performance on this objective.

2. Identify intended changes that will be instituted based on results of this assessment activity (check all that apply). Please describe changes and give rationale for change.

a. ☐ Outcomes/Assessments on the Master Syllabus
Change/rationale:

b. ☐ Objectives/Evaluation on the Master Syllabus
Change/rationale:

c. ☐ Course pre-requisites on the Master Syllabus
Change/rationale:

d. ☐ 1st Day Handouts
Change/rationale:

e. ☒ Course assignments
Change/rationale: Students will receive more instruction on data structures.

f. ☐ Course materials (check all that apply)
☐ Textbook
☐ Handouts
☐ Other:

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g. ☐ Instructional methods
Change/rationale:

h. ☐ Individual lessons & activities
Change/rationale:

3. What is the timeline for implementing these actions?

IV. Future plans

1. Describe the extent to which the assessment tools used were effective in measuring student achievement of learning outcomes for this course.

The final exam given covers each of the course objectives as stated in the cps261 syllabus. The results indicated were mostly consistent with the expectations of the department. The one exception was previously discussed.

2. If the assessment tools were not effective, describe the changes that will be made for future assessments.

3. Which outcomes from the master syllabus have been addressed in this report?

All ☒ Selected ☐

If "All", provide the report date for the next full review: Winter 2015.

If "Selected", provide the report date for remaining outcomes: _____.

Submitted by:

Print: <u>Clarence Hasselbach</u> Faculty/Preparer	Signature <u>Clarence Hasselbach</u>	Date: <u>1/3/2012</u>
Print: <u>Clarence Hasselbach</u> Department Chair	Signature <u>Clarence Hasselbach</u>	Date: <u>1/3/2012</u>
Print: <u>Rosemary Wilson</u> Dean/Administrator	Signature <u>Rosemary Wilson</u>	Date: <u>1/5/12</u>