## SELF-ASSESSMENT OF USU CS COURSE
### BY INSTRUCTOR

<table>
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<tr>
<th>Course: CS 1410</th>
<th>Semester: Spring 2007</th>
<th>Instructor: Steve Allan</th>
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<td><strong>List Course OUTCOME</strong></td>
<td><strong>Assessment tool and passing criteria</strong></td>
<td><strong>% Passing</strong></td>
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| Understand the terminology commonly associated with Object Oriented programs  
  - Inheritance & Polymorphism  
  - Abstract classes  
  - Virtual Function  
  - Generic data structures  
  - Exception Handling | Programming assignments  
  Quizzes in class  
  Questions on tests | 91 |
| Ability to use C++ IO operations | Programming assignments  
  Questions on tests | 100 |
| Ability to develop C++ classes, including the following features  
  - Derive from an existing class  
  - Overload operators  
  - Replace virtual functions | Programming assignments  
  Questions on tests  
  Quizzes in class | 91 |
| Ability to use C++ exception handling | Programming assignments  
  Questions on tests | 75 |
| Ability to write Template code, also ability to use existing template libraries such as the Standard Template Library. | Programming assignments  
  Questions on tests | 75 |
| Understanding of recursion and ability to write basic recursive algorithms. | Programming assignment  
  Questions on tests  
  Quizzes | 92 |
| Ability to implement basic data structures, including  
  - Linked Lists  
  - Stacks  
  - Queues  
  - Binary Trees | Programming assignments  
  Questions on test | 88 |

### Self assessments of strengths and weaknesses this semester (what worked, what did not work):
- The tests allowed me to make sure that the score on programs reflected the student's knowledge.
Sometimes, students get significant help on the programs.

- I think the students like pairs programming and they seemed to do better on their programs using pairs.
- The in class quizzes allowed me to ask simple little questions that showed me how the previous lecture was received.
- Even though I look at the grades on the programs, I don’t grade them. Thus I don’t see some of the problems that the students have and I may not address those problems during my lecture.
- I need to work closer with the grader to find the problems the students have on their programs.

Recommendations of changes to implement next offering:

- More interaction with the grader so I know the problems students are having on the programming assignments.
- I think I need to slow down a little on the class lectures. I finished a bit early.