

Foundation Level Computing Science CSF21 Marking Rubric – Semester 1 2015

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| Marking criteria | <p>This Rubric is Research Skills Development (RSD) Framework compliant. It test all the facets of Inquiry and spreads over Level 1 and Level 2 of student autonomy.</p> <p>Score to grade mapping rules: The minimum possible score for this rubric is 0 points and it will be converted to the minimum grade available in this module (which is zero unless the scale is used). The maximum score 54 points will be converted to the maximum grade. Intermediate scores will be converted respectively and rounded to the nearest available grade. If a scale is used instead of a grade, the score will be converted to the scale elements as if they were consecutive integers.</p> | | | | | |
| | Embark & Clarify - Knowledge/Understanding | Demonstrates NO understanding of programming concepts & appropriate use of C++ Features. 0points | Demonstrates limited understanding of programming concepts & appropriate use of C++ Features. 1points | Demonstrates some understanding of programming concepts & appropriate use of C++ Features. 2points | Demonstrates considerable understanding of programming concepts & appropriate use of C++ Features. 3points | Demonstrates thorough understanding of programming concepts & appropriate use of C++ Features. 4points |
| | Find & Generate - Test Cases | No Test Cases created. 0points | One test case created and somewhat explained. 1points | Two new test cases created and somewhat explained. 2points | Three new test cases created and somewhat explained. 3points | Four new test cases created and somewhat explained. 4points |
| | Evaluate & Reflect - Pseudocode | The Pseudo code is not provided. 0points | The Pseudo code is created that has very limited mapping with the Project 2015.exe program. 1points | A Pseudo code is created that maps somewhat with the Project 2015.exe program. 2points | The Pseudo code is created that maps considerably with the Project 2015.exe program. 3points | The Pseudo code is created that maps perfectly with the Project 2015.exe program . 4points |
| | Organize & Manage - Source Code | The code cannot be comprehended and is full of errors. 0points | The code is written with no care and contains more than 4 syntax errors. 1points | The code is written with minimal care and contains between 3 - 4 syntax errors. 2points | The code is written with enough care and but has 1 - 2 syntax errors. 3points | The code is written with absolute care and does not have any syntax errors. 4points |
| | Organize & Manage - Variables | Inefficient use of memory with lots of repetitive variables and random data types. 0points | Redundant use of memory with high number of variables with random data types used. | Appropriate number of variables with correct data types used. 2points | Efficient use of memory with appropriate number of variables with correct data types used. | Most Efficient use of memory with minimum number of variables with correct data types used. |

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| | 1points | 3points | 4points | | |
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| Organize & Manage - Readability | The code is poorly organized and very difficult to read. 0points | The code is readable only by someone who knows what it is supposed to be doing. 1points | The code is somewhat readable. 2points | The code is fairly easy to read. 3points | The code is exceptionally well organized and very easy to follow. 4points |
| Analyze & Synthesize - Accuracy (selection & loops) | The selection and loop structure are not defined. 0points | The selection and loop structure are poorly defined and extremely difficult to follow. 1points | The selection and loop structure are somewhat defined and difficult to follow. 2points | The selection and loop structure are well defined and very easy to follow. 3points | The selection and loop structure are exceptionally well defined and extremely easy to follow. 4points |
| Analyze & Synthesize - Robustness (error handling) | The program produces incorrect results. 0points | Does not check for errors and out-of-range data. 1points | Does little checking for errors and out-of-range data. 2points | Does some checking for errors and out-of-range data. 3points | Does an exceptional job of checking for errors and out-of-range data. 4points |
| Communicate & Apply - User Interface | Poor & erratic user interface. 0points | Ambiguous user interface. 1points | Satisfactory user interface. 2points | Good user interface. 3points | Excellent user interface. 4points |
| Communicate & Apply - Documentation | The documentation is not included in the source code. 0points | The documentation is simply comments embedded in the code and does not help the reader understand the code. 1points | The documentation is simply comments embedded in the code with some simple header comments separating routines. 2points | The documentation consists of embedded comment and some simple header documentation that is somewhat useful in understanding the code. 3points | The documentation is well written and clearly explains what the code is accomplishing and how. 4points |
| Submission Criteria | None of the Project Criteria met. 0points | Meets only a few of the Project Criteria. 1points | Meets only some of the Project Criteria. 2points | Meets most of the Project Criteria. 3points | Meets all Project Criteria. 4points |
| Delivery | After seven | Within seven | Within four | Within two | On Time. |

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| | | days. 0points | days. 2points | days. 5points | days. 8points | 10points |
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