

Course Title: CSC/IST232 C++ Programming

Course Leader: Tom Paci-Funk

Expected Learning Outcomes for Course

- Critical Thinking and Problem Solving – Use skills for analysis of programming problems and selection of algorithms.
- Computation – Use mathematical skills to develop algorithms and verify program outputs.
- Technology – Select and use appropriate programming constructs to solve problems.
- Information Literacy – Use textbook, programming references and online help to access necessary information.

Assessment

(How do students demonstrate achievement of these outcomes?)

Students develop practical, professional-quality programs using appropriate C++ programming methods that are graded using rubrics developed by the instructor and reviewed/approved by the IST Advisory Committee based on standard programming standards.

Validation

(What methods are used to validate your assessment?)

The instructor is following the course plan of a cohort college (Millersville University).

Former students (who now work in the developer/programmer field) were contacted for their input into course revisions.

Results

(What does the data show?)

It is difficult to cover the same amount of material as the cohort college because they have 5 contact hours versus our 3 contact hours. Also the course meets once a week, where as, the cohort college meets 3 times a week.

Follow-up

(How have you used the data to improve student learning?)

This is the first semester IST232 Advanced C++ has been taught for many semesters. It will be necessary to have the course coverage reviewed by a cohort college that teaches on the same format as HCC. The entire course (exams, projects, textbook, content coverage) will be submitted for an external validation.

Budget Justification

(What resources are necessary to improve student learning?)

HCC needs to purchase a newer version of C++. The students are currently getting free version of C++ that are ahead of HCC's version.