Hagerstown Community College Master Syllabus
CSC 232: Advanced C++ Programming

Course Information
CSC 232: Advanced C++ Programming
3 Credits
Spring 2019
January 7 through April 29, 2019
Wednesdays 5:30 -- 8:15 P.M.
Room: STEM 102

Instructor Information
Instructor: Cole Snyder
Phone: 301-331-6751 (email first)
Email: icsnyder@hagerstowncc.edu
Office: NA
Office hours:
> Tuesdays 5:00 – 7:00 P.M.
> Room: TBA

Course Description
This course continues to introduce students to object-oriented programming using C++. It builds on the foundation of IST/CSC 132. Students learn OOP concepts such as classes, friends and templates and use these to build programs designed to compile and run on any machine architecture supported by the GCC. Using a hands-on approach, students will have the opportunity to design, code and test object-oriented applications. Additional time outside of class will be necessary to write programs. Laboratory fee required. Prerequisite: IST/CSC 132. Semester offered: Spring. 3 Credits

Textbook and Course Materials
Absolute C++ 6th Edition. (Savitch 2016). Pearson. ISBN: 978-0-13-397078-4

Student Learning Outcomes
- Understand OOP concepts such as classes, inheritance.
- Understand abstraction concepts such as friends, templates.
- Ability to design, code, and test object-oriented applications
- Gain useful experience in debugging programs.
- Enhance the student's problem-solving skills
- Learn techniques of top-down design of algorithms and structured programming
- Develop syntactically and functionally correct executable programs
- Create appropriate documentation both inline and external.

Definition of Credit Hour: Classroom Courses

To earn one academic credit at HCC, students are required to complete a minimum of 37.5 clock hours (45 fifty-minute academic hours) of coursework per semester. Those hours of coursework may be completed through a combination of hours in the classroom and hours outside the classroom. Certain courses may require more than the 37.5 minimum hours of coursework per credit. For most classes, students should expect to complete at least 2 hours of coursework outside of class for each hour of in-class coursework.

Classwork type	Direct Faculty Instruction In-class **37.5 hours required**	Student Work Out of Classroom **75 hours required**
In-class lecture and discussion	37.5 hours	
Reading		20 hours
Quizzes/Study		16 hours
Programming Projects		21 hours
Presentation Preparation		8 hours
Cumulative Final Exam		10 hours
Total	**37.5 hours**	**75 hours**

Services for students with disabilities:
Students may receive reasonable accommodations if they have a diagnosed disability and present appropriate documentation. Students seeking accommodations are required to contact the Disability Support Services (DSS) office as early as possible. Students may contact a DSS staff member for an appointment at dss@hagerstowncc.edu or at 240-500-2530.