Hagerstown Community College
OFFICIAL MASTER SYLLABUS DOCUMENT

COURSE: SDE 201 - Multimedia Algorithms and Mobile Devices, 3 Credits

INSTRUCTOR: **SEMESTER/YEAR:** Fall 2017

COURSE DESCRIPTION:
This is a survey course with introduction to concepts needed for career opportunities in interactive design. This course teaches the development and design process for mobile devices. Projects are generally in the form of a working smartphone or tablet application. Both studio and field production will be emphasized as students learn the basic equipment, terminology, and creative options for producing audio and video, as well as the unique characteristics and restrictions associated with delivering these forms of multimedia. Adobe Air and platform dependent Software Development Kits (SDKs) are currently used to complete projects. Course fee required. *Prerequisite: SDE 104 or SDE 130 or WEB 115 or consent of TCS Division.

TEXTBOOKS:
Braunstein, Roger. ActionScript 3.0 Bible. Wiley, 2010.

STUDENT LEARNING OUTCOMES AND COURSE CONTENT OBJECTIVES:
- Demonstrate skills in graphical software
- Create Animations
- Verbally present your created materials
- Create interactive applications
- Develop concepts in screen design
- Adeptly model and animate in 2 dimensions and 3 dimensions
- Logically formulate scripts and/or programs to solve problems
- Understand and articulate interactivity in the gaming industry, including the connectivity between computer art and programming
- Apply programming and artistic theory in practical applications
- Demonstrate problem solving skills through verbal and written media
- Apply rudimentary physical principles to animations or simulations

Total Hours of Coursework:

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 within 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 do at least 2 hours of coursework outside of class for each hour of in-class coursework.

	Faculty Instruction In-Class (HR)	Student Work Out of Classroom (HR)
In-class "lecture"	26	
Reading chapters	3	15
Tests/activity for each chapter	5.5	25
Research project	3	35
Total Hours	**37.5**	**75**

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.