Hagerstown Community College Master Syllabus
ELE 208: Advanced Digital Systems

Course Information
Course #: ELE 208 Advanced Digital Systems
3 Credits
Spring 2019

Instructor Information

Course Description
In this course, students will do a comprehensive study of the principles and techniques of modern digital systems. The course will teach the fundamental principles of digital systems and cover thoroughly both traditional and modern methods of applying digital design and development techniques, including how to manage a systems- level project. The goal is for students to be able to design, analyze, and install an advanced digital system. Total of 45 hours of lecture

Textbook and Course Materials
Digital Systems, Tocci. Pearson. ISBN 9780134220130
Learning FPGAs. Rajewski. O'Reilly. ISBN 9781491965498

Student Learning Outcomes
- Specify and build digital systems.
- Design, build and prototype an advanced digital system.

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	45 hours	
Reading		48 hours
Quiz/exam studying		12 hours
Reading question completion		8 hours
Paper writing		18 hours

Classwork type	Direct Faculty Instruction In-class **37.5 hours required**	Student Work Out of Classroom **75 hours required**
Total	**45 hours**	**86 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.