



COMPUTER SCIENCE 110
COURSE OUTLINE
FALL 2015
K. MACDONALD & A. HALLIHAN

This course serves as an introductory course in computer programming using Visual Basic Express 2010 and Introduction to Arduino Programming. Students will learn to create simple Windows programs. Students will also be involved with the MVHS MakerSpace, which will have a variety of technologies that can be used to develop their final project. Overall, this course will prepare students to take further programming courses in high school, university, or community college and to make an informed career choices in this area.

Topics to Be Covered

- | | |
|----------------------------------|------------------|
| Careers in Computer Science | Debugging |
| Programming Languages | Looping |
| Computer System Components | IF Statements |
| Input/output Devices | CASE Structures |
| Computer Processor | Arrays |
| High Level Programming Languages | Multiple Forms |
| Memory | Animated Objects |
| System Software | Sound |
| Application Software | Interface |
| Documentation | IDE |
| Visual Basic Interface | Video Game |
| Flow Chart | Coding |
| Variables | Arduino |
| Data Types | |
| Conditional Statements | |
| Writing Expressions | |

EVALUATIONS...

- Daily assignments
- Quizzes
- TechPoints
- Minor Projects
- Final Project

Final Mark

| | |
|--|-----|
| Minor Projects/Quizzes/TechPoints/Assignments..... | 75% |
| Final Project..... | 25% |