

Name of School:

Name of Course: **Advanced Visual Basic 2005**

### **Instructor Information**

**Name:**  
**E-mail address:**  
**School phone number:**  
**Web page address:**  
**Best times to be reached:**

### **Course Description**

This course is designed for the student who has successfully completed the Visual Basic Programming course. This course will provide the student with more advanced topics in Visual Basic. The course introduces looping structures and MenuStrips. Students will also be exposed to Web applications using Splash Screens with ActiveX ComboBox controls. Arrays and classes will also be demonstrated. Students will also create and design Smartphone applications.

### **District Standards and Power Benchmarks**

#### **Power Standards.**

1. Acquire knowledge and effectively demonstrate technology skills by thinking creatively, solving problems, and communicating.
2. Understand ethical and legal uses of technology.
3. Apply technology skills across the curriculum.
4. Aware of career and post-secondary opportunities involving computers and technology.

#### **Power Benchmarks:**

1. Student will be able to design an application using looping structures.
2. Student will be able to create a MenuStrip into an application.
3. Student will be able to create an application that read and writes a text file.
4. Student will be able create a dynamic Web application.
5. Student will be able to design an application that uses sub-procedures and functions.
6. Student will be able to create an application that initializes an array.
7. Student will be able to design an application that utilizes classes.
8. Student will be able to create and code a Smartphone application.
9. Student will be able to design a Visual Basic application that calculates depreciation.
10. Student will be able to create a Splash Screen utilizing an ActiveX ComboBox control.

### **Course Information**

This is a one-term course. Upon completion, student will receive .5 unit of credit to be used toward their district requirement of 26. Prerequisite is Visual Basic Programming 2005. It is recommended that students be proficient at the keyboard and have taken Algebra.

### **Course Outline/Calendar**

Chapter Six – Loop Structures (Approximately 7 days)  
Chapter Seven – Creating Web Applications (Approximately 7 days)  
Chapter Eight – Using Procedures and Exception Handling (Approximately 7 days)  
Chapter Nine – Using Arrays and File Handling (Approximately 7 days)  
Chapter Eleven – Multiple Classes and Inheritance (Approximately 7 days)  
Chapter Twelve – Cell Phone Applications and Web Services (Approximately 7 days)

### **Text/Other Required Materials/Resources**

Shelly-Cashman-Hoisington, Microsoft Visual Basic 2005 for Windows, Mobile, Web, Office, and Database Applications, Comprehensive, Course Technology, 2007.

### **Instructional Procedures & Support**

Teacher Model/Demonstration with class participation.  
Independent Programming.  
Student Collaboration Programs  
Read Aloud  
Guided Practice  
Learn It Online  
All programming will be done in class. If a student falls significantly behind, or has makeup work, arrangements will need to be made to come in before or after school.

### **Classroom Management Procedures**

No food or drink is permitted in the computer lab.  
Do not change the computer settings or the desktop display in any way.  
No chatting on line, reading/receiving e-mail, and message boards  
No downloading or unauthorized Internet use.  
No game playing.  
No changing desktop screen will be allowed.  
Documents will be saved only to the e-lockers.  
No personal software, CD's, floppy disks or pen drives.  
Do not deface or vandalize the computer hardware.  
All work must be done in the business computer lab.

**Assessment Plan**

Chapter Quizzes  
Chapter Test  
Chapter Case Programs  
Various Learn It Online and Program Analysis

**Grading System**

90 – 100    A  
80 – 89     B  
70 – 79     C  
60 – 69     D  
0 – 59      F