



Phone: 713-688-1361

Website: [www.houstonisd.org/waltrip](http://www.houstonisd.org/waltrip)

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**COURSE SYLLABUS ~ COMPUTER PROGRAMMING**  
**Career and Technical Education Department (CTE)**  
**S. P. Waltrip High School**  
**1900 West 34<sup>th</sup> Street ~ Houston, Texas 77018**

<b>Instructor:</b>	Ms. Grimm
<b>Contact information:</b>	jgrimm@houstonisd.org ~ Office Phone 713-688-1361
<b>Room</b>	1115
<b>Conference Period:</b>	7 <sup>th</sup>
<b>Prerequisite:</b>	Principles of Information Technology and Algebra I
<b>Certification:</b>	Microsoft Word Expert

**Course Description**

In Computer Programming I, students will acquire knowledge of structured programming techniques and concepts appropriate to developing executable programs and creating appropriate documentation. Students will analyze the social responsibility of business and industry regarding the significant issues relating to the environment, ethics, health, safety, and diversity in society and in the workplace as related to computer programming. Students will apply technical skills to address business applications of emerging technologies.

**Textbook**

*Programming Basics*

**Materials**

Pen, Pencil, Paper, External USB/FW Hard drives

**Attendance and Participation**

Attendance and participation are required; new material is being presented daily as well as collaborative activity projects. It is your responsibility to see me, check the board/HUB or check with a partner if you are absent from class.

**Tutorials**

Tutorials are offered on Tuesday and Wednesday morning.

**Grading System**

Participation	20%
Major	40%
Daily	40%

**Late Work:**

Assignments that are not turned in on-time are considered late work. A late assignment will not receive full credit; 20 points will be deducted.

**Instruction Methods, Students Assignments and Assessments**

Face to Face and Web-enhanced - A variety of instructional methods are used throughout the semester. Examples may include class discussions, lectures, readings, group projects, internet searches, and presentations. Discussion is the primary way in which students come to understand a concept. Discussion is both large group and small group and is usually student led, but are sometimes conducted online through HUB Discussion threads. Cooperative learning groups are also used extensively in this class. Projects/assignments will be done individually as well. Assignments, projects and web-enhanced activities have been developed to guide your learning and concept development as an intro level programmer. As an instructor, I want my students to be successful. I feel that it is my responsibility to provide you with knowledge and opportunities for critical thinking and applications as appropriate.

**Student Expectations**

As a student wanting to succeed at your academic and career endeavors, it is your responsibility to do the assigned readings, submit assignments on time, and participate in discussion forums and other activities. Please be respectful of yourself and peers, come to class prepared and on time. Clean up after yourself and remain seated until the bell sounds.

**SCHEDULE OF CLASSES:**

Following is a tentative outline of discussion topics and class assignments for the year. This schedule is subject to change. The instructor reserves the right to change the assignments, projects and dates as deemed necessary. You will be informed of any changes. Updated information will be posted online on the HUB.

**Fall Semester*****First - Six Weeks***

- MS Word
  - Microsoft Office Certification Test
  - Manage Documents and Templates
  - Prepare Documents for Review
  - Manage Document Changes
  - Perform Advanced Editing and Formatting
  - Create Styles
  - Create and Manage Indexes
  - Create and Manage References
  - Manage Forms, Fields, and Mail Merge Operations
  - Create and Modify Building Blocks, Marcos, and Controls
  - Create Custom Styles Sets and Templates
  - Prepare a document for Internationalization and Accessibility

***Second - Six Weeks***

- Introduction to Computer Programming
- Safety
- Employability, Education
- Introduction to Languages

### ***Third - Six Weeks***

- C++
  - Entering Compiling and Running a C++ Program
  - Variables and Constants

### **Final Exam Week**

## **Spring Semester**

### ***Fourth - Six Weeks***

- C++
  - Entering Compiling and Running a C++ Program
  - Math Operations

### ***Fifth - Six Weeks***

- HTML
  - Quick HTML Know How
  - HTML Organization

### ***Six - Six Weeks***

- HTML
  - HTML Power Techniques
  - What is JavaScript?
  - Using Images with JavaScript

### **Final Exam Week**