COURSE SYLLABUS

COURSE: **CTI 110** **WEB, PGM, & DB FOUNDATION**

HOURS: Lecture: **2** Lab/Shop: **2** Work Exp/Clinical: **0** Credits: **3**

COURSE DESCRIPTION:

This course covers the introduction of the tools and resources available to students in programming, mark-up language and services on the Internet. Topics include standard mark-up language Internet services, creating web pages, using search engines, file transfer programs; and database design and creation with DBMS products. Upon completion students should be able to demonstrate knowledge of programming tools, deploy a web-site with mark-up tools, and create a simple database table.

PREREQUISITE(S): DMA 010-040 or MAT 070 or MAT 003 Tier 2 or BSP 4003 Tier 2, DRE 097 or ENG 002 or BSP 4002 or ENG 111

COREQUISITE(S): None

TEXTBOOK(S) & OTHER SPECIAL REQUIREMENTS:

Open Educational Resources (OER) are listed in the course Moodle.

COURSE GOALS:

1. Learn the fundamentals of computer programming languages.
2. Learn the fundamentals of website development.
3. Learn the fundamentals of database management systems.

STUDENT LEARNING OUTCOMES:

Upon successful completion of this course, the student will be able to:

1. Apply basic principles of programming logic.
2. Analyze and troubleshoot programming code.
3. Create a simple website with mark-up tools.
4. Recognize and implement Web page structure and style elements.
5. Create a simple database table.
6. Complete written lab reports and provide oral presentations from lessons learned.
7. Complete a presentation demonstrating the global implications of computer programming, Web development, or databases.

***Please refer to the online version of the Richmond Community College Program & Course Catalog and the Student Handbook for current academic and general information**