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COURSE SYLLABUS

COURSE: DBA 120 DATABASE PROGRAMMING I

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

COURSE DESCRIPTION:

This course is designed to develop SQL programming proficiency. Emphasis is placed on data definition, data manipulation, and data control statements as well as on report generation. Upon completion, students should be able to write programs which create, update, and produce reports.

PREREQUISITE(S): CTI 110

COREQUISITE(S): None

TEXTBOOK(S) & OTHER SPECIAL REQUIREMENTS:

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

COURSE GOALS:

Prepare for the Microsoft Technology Associate (MTA), Database Fundamentals, 98-364 exam.

STUDENT LEARNING OUTCOMES:

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

1. Understand what a table is and how it relates to the data that will be stored in the database.
2. Understand what a relational database is, the need for relational database management systems (RDBMS), and how relations are established.
3. Understand what a DML is, what a DDL is, and the roles of each in databases.
4. Describe data types, why they are important, and how they affect storage requirements.
5. Select, insert, update, and delete data.
6. Perform different levels of normalization.
7. Understand the reason for keys in a database, choose appropriate primary keys, select appropriate data types for keys, select appropriate fields for composite keys, and understand the relationship between foreign and primary keys.
8. Understand database security concepts.
9. Discuss the global implications of data stored in databases, including the amount, analysis, and sensitivity of such data.

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