# Data Systems/Processing Course No. 10054 Credit: 1.0

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| **Student name:**  |  | **Graduation Date:** |  |

Pathways and CIP Codes:Programming & Software Development (11.0201)

Course Description: **Technical Level:** Data Systems/Processing courses introduce students to the uses and operation of computer hardware and software and to the programming languages used in business applications. Students typically use BASIC, COBOL, and/or RPL languages as they write flowcharts or computer programs and may also learn data-processing skills.

Directions:The following competencies are required for full approval of this course. Check the appropriate number to indicate the level of competency reached for learner evaluation.

**RATING SCALE:**

4. Exemplary Achievement: Student possesses outstanding knowledge, skills or professional attitude.

3. Proficient Achievement:Student demonstrates good knowledge, skills or professional attitude. Requires limited supervision.

2. Limited Achievement:Student demonstrates fragmented knowledge, skills or professional attitude. Requires close supervision.

1. Inadequate Achievement:Student lacks knowledge, skills or professional attitude.

0. No Instruction/Training:Student has not received instruction or training in this area.

## Benchmark 1: Click or tap here to enter text.

### Competencies

| **#** | **DESCRIPTION** | **RATING** |
| --- | --- | --- |
| 1.1 | Demonstrate knowledge of hard drive technologies(IDE, EIDE, SATA, SCSI, etc.). |  |
| 1.2 | Demonstrate knowledge of I/O ports (serial, parallel, USB2, USB3, SATA, , etc.). |  |
| 1.3 | Demonstrate knowledge of INPUT devices(keyboard, mouse, touchpad, cameras, scanners, midis, barcode scanners, etc.). |  |
| 1.4 | Demonstrate knowledge of OUTPUT devices(printers, CRTs, LCD monitors, network devices). |  |
| 1.5 | Demonstrate knowledge of how a programming language can support multitasking and exception- handling. |  |
| 1.6 | Demonstrate knowledge of the basic principles for analyzing a programming language. |  |
| 1.7 | Demonstrate knowledge of the basics of structured, object-oriented language. |  |
| 1.8 | Demonstrate knowledge of the concepts of data and procedural representations. |  |
| 1.9 | Demonstrate knowledge of the hardware-software connections. |  |
| 1.10 | Demonstrate knowledge of current key programming languages and the environment they are used in. |  |
| 1.11 | Demonstrate knowledge of key constructs and commands specific to a language. |  |

I certify that the student has received training in the areas indicated.

Instructor Signature:

For more information, contact:

CTE Pathways Help Desk

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