# Emerging Technologies Course No. 10040 Credit: 1.0

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

Pathways and CIP Codes:Web & Digital Communications (11.1004)

Course Description: **Application Level:** Coursework should represent objectives reflective of the locally adopted process. Those listed below are example/foundational only.

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 the research skills necessary to identify and evaluate emerging technologies |  |
| 1.2 | Seek and identify sources of information on new technology. |  |
| 1.3 | Identify solutions and problems that go beyond the expected and obvious. |  |
| 1.4 | Identify sciences and technology areas most impacted and with most potential to utilize the new technologies. |  |
| 1.5 | Be able to explain why it is important for STEM professionals to keep abreast of evolving technologies. |  |
| 1.6 | Be able to discuss the advantages, disadvantages, and prospects of current emerging technologies. |  |
| 1.7 | Discuss in depth a chosen emerging technology, based on independent research. |  |
| 1.8 | Explain the change process. |  |
| 1.9 | Develop a plan for anticipating change. |  |
| 1.10 | Address each of the following areas to varying degrees based on available information: anticipated employment, drivers & constraints, size & location of market, connection(s) to existing technologies, ability & ease of replication, physical & capital costs, industry & education partnerships to be leveraged, national best practices, illustrate qualifications & recommendations, aims & approaches for the Technological innovation, Innovation system modeling, Technology monitoring, forecasting & assessment, Trend analysis methods & scenarios, Impact assessment, Risk analysis, Action (policy) analysis, Technology road mapping, and Communication & implementation of innovation forecasts. |  |

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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