# NC-NET News

**ISSUE FOCUS:** Integrated Instruction

## Faculty Teams Collaborate on Integrated Projects as Part of Academy Practicum

This spring, teams of faculty members from colleges across the state are participating in a unique NC-NET Academy Practicum that offers a "deep dive" in integrated curriculum design. Instructors from academic disciplines have been paired with instructors from career-technical disciplines for collaborative work on integrated projects. These interdisciplinary teams are busy creating classroom-ready projects that will:

- Integrate career and technical content and academic concepts—reinforcing both

- Use real-world scenarios to engage students and make content relevant

- Foster critical thinking, collaboration, and other skills valued by employers

- Encourage instructors to use active, authentic assessment techniques

Disciplines represented in the spring 2017 cohort include Health Science, Biotech, Nursing, Anatomy and Physiology, Surgical Technology, Electronic Engineering Technology, Physics, HVAC, Quantitative Literacy, Human Services Technology, Communication and Public Speaking, and Information Technology. The Practicum debuted as part of the Academy last spring.

In this issue of *NC-NET News* we share the finished product from one of the 2016 teams. Patricia Williams and Shaun Williams of Cleveland Community College collaborated on the integrated project *A Blast from the Past: Using Computer Analysis to Find a Deadly Microbe*. You can download files using the link at the end of the overview, or access the web version of the project on the NC-NET website.

## A Blast from the Past: Using Computer Analysis to Find a Deadly Microbe

**Project Description:**

Through the scenario of an archeological dig team who falls mysteriously ill after working at a dig site, students play the role of scientists and agents from the Center for Disease Control who come to investigate what caused the illnesses. Students will develop data collection and information processing skills in the context of DNA analysis and bioinformatics.

**Estimated Duration:**

Approximately two 50 minute class periods or one 2-3 hour laboratory class.

**Appropriate Course(s) for Implementation:**

BIO-111 (General Biology 1)
BIO-275 (Microbiology)
BIO-280 (Biotechnology)
BIO-250 (Genetics)
BTC-270 (Recombinant DNA Techniques)
CIS-110 (Introduction to Computers)
DBA-110 (Database Concepts)

**Files for Instructors:**

The materials to implement this project are self-contained within a single Microsoft Word file.

**>>Download:** "A Blast from the Past: Using Computer Analysis to Find a Deadly Microbe"

**News You Can Use:** *Don't miss April's Resources of the Month on the NC-NET website.*