Digital Learning @ Keuka College

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DL@KC

• Provide students with the skills necessary for success in the 21st Century global, digital world.
• Preparation for a data-driven world – Big Data
• Understanding computing, not just using computers
• Provided across the liberal arts curriculum
DL@KC – 3 components

1. Digital Classes – facilitate teaching and learning
2. Digital Tools – assess teaching and learning to enable more strategic student intervention
3. Computational Problem Solving – create deep understanding of modern tools
DL@KC 3 Phase Approach

1. Digital studies minor available to all majors
2. Infusion of computational problem solving in professional, discipline-specific courses
3. Infusion of fundamentals into general education curriculum
Computation for Everyone

- NOT a new idea
- Based on Computational Thinking (CT) a problem-solving method fundamentally based on computer science concepts and techniques to algorithmically solve complicated problems of scale by manipulating data and ideas
Computational Thinking

• Involves using the capabilities of one’s (human) brain and the capabilities of a computer to represent and solve problems and accomplish tasks.

(Remember, data is *not* information until it is interpreted by humans)
Why?

- Albert Einstein pointed out “computers are incredibly fast, accurate and stupid. Human beings are incredibly slow, inaccurate and brilliant. Together they are powerful beyond imagination.

- “I think everyone should learn how to program a computer, because it teaches you how to think. I view computer science as a liberal art, something everyone should learn to do.” SJ 1995
DL@KC Will Produce…

• Teachers ready for the 21st century classroom
• Criminal justice experts helping to solve cyber-crimes
• Scientists armed with computational methods
• Nurses proficient in medical informatics
• OT professionals highly skilled in using technology in their lab and clinics
• English majors fluent in digital storytelling…
Comments and Observations?