

What Would Socrates Say?

An Enlightened Look at
Technology's Role in Learning

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Critical Questions to Explore

- What is Technology?
- What is Learning?
- What is the Faculty Role in Learning?
- How Can Technology Aid Learning?
- What are the Impediments We Face?
- What Can We Do Now?

What is Technology?

Concept

- The application of scientific knowledge for practical purposes
- The use of knowledge and resources to solve problems and extend human capabilities

Tool

- Machinery and equipment developed from such scientific knowledge
- Can be tools, resources, or systems
- May be simple: the stirrup attached to a saddle; or complex: a computer

What is Learning?

20th Century

- Pedagogy based on tradition
- Learners as empty vessel
- Passive role of learner
- Memorization as learning
- Recall as assessment
- Place and time-bound

21st Century

- Pedagogy based on learning science
- Learners come with variety of abilities
- Active role of learner
- Application, analysis and synthesis as learning
- Demonstration as assessment
- Few boundaries on learning

What is the Faculty Role in Learning?

- Directing this?



What is the Faculty Role...?

- Or facilitating this?



Faculty Role

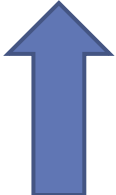


- Or a Combination?
- Our Best Faculty Are Probably a Combination of Both: Excellent Teachers Who Continue to Improve Student Learning through Evidence-Based Approaches
- We have a Mechanism for this: Learning Outcomes Assessment

How Can Technology Aid Learning?

- 1. As an approach to solving a problem
- 2. As a solution to a problem
- 3. As a catalyst for creative thinking

Technology: Approach to PS

What is the problem?

- Costs Rising 
- Student Learning Stagnant 
- Completion Stagnant 

Technology: Approach to PS

- **How do we use our knowledge, resources, and systems to**

- **Decrease costs**



- **Increase learning**



- **Increase completion**



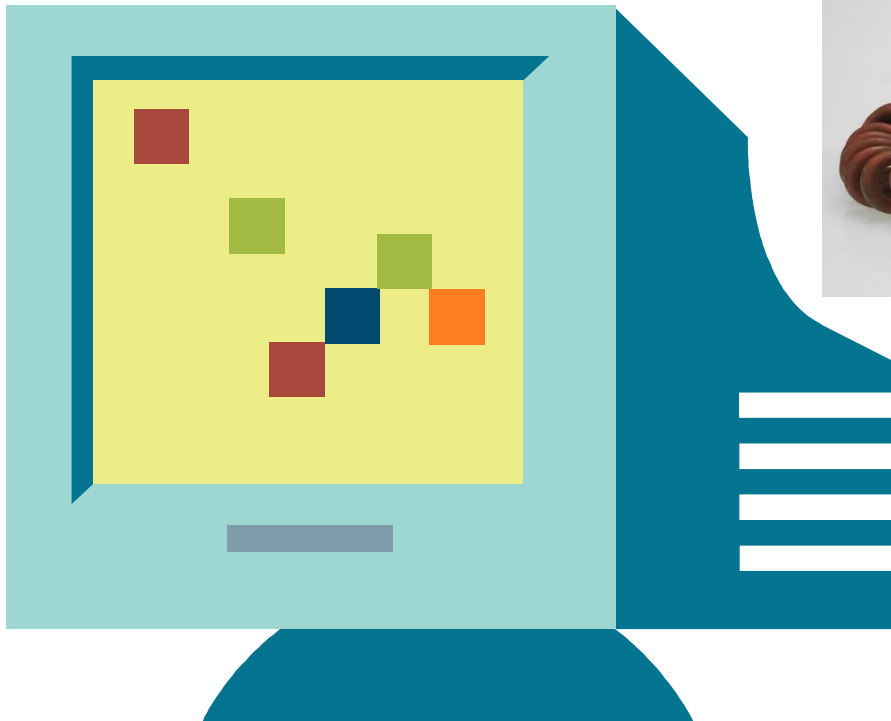
Technology: Tools as Solutions

- What technologies help our learners to
 - Learn more effectively?
 - Complete degrees more efficiently?

Technology: More is Not Always Better



Technology: Catalyst for Creativity



Impediments We Face

- Fear
- Tradition
- Rapid Changes
- Need to Change Skills
- Technology in Early Stages
- Time

What Can We Do Now?

- Help stakeholders face realities
- Create a clear rationale for technology
- Develop partnerships and collaborations
- Develop and sustain transparency and trust
- Develop strong champions for change
- Communicate, communicate, communicate
- Develop clear processes for involvement, change, and feedback

Thanks to Dr. Chris Sax

One Idea to Drive Technology

- Create a collaborative unit to pilot and assess new technologies
- UMUC: Center for Innovation in Learning
 - Piloting and Assessing New Pedagogies, Technologies, Curricula
 - Focus On the Learning
 - Faculty are collaborators, learners, evaluators, implementers, and heroes

What Would Socrates Say?

- Perhaps the following:
- In Plato's version, Socrates would admit that he knows very little
- But would question through dialogue to get to deeper mutual learning

Thank You...

- And now for the hemlock....