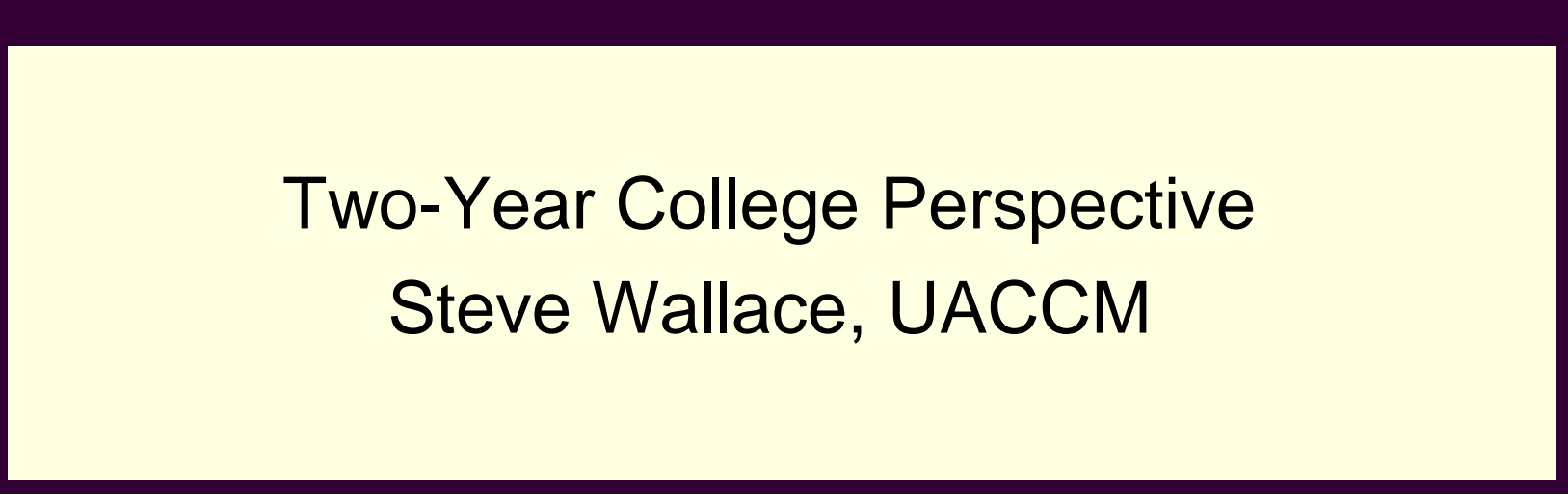

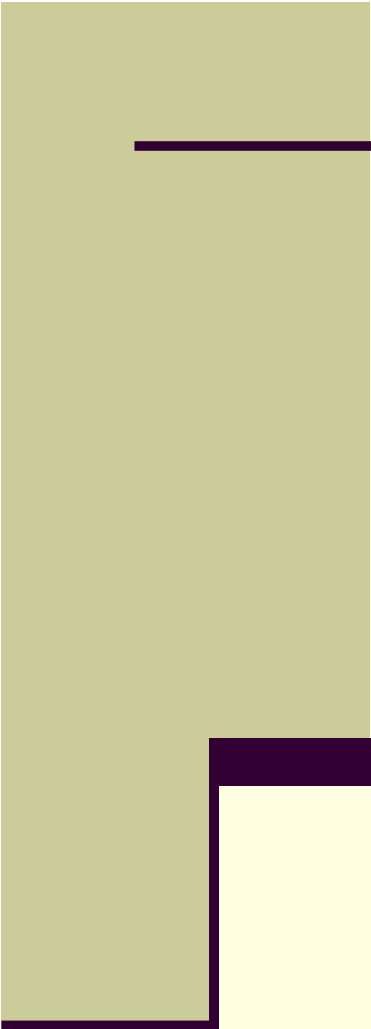




# Education & IT



Two-Year College Perspective  
Steve Wallace, UACCM

# Overview

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n History - Path to Professionalization

n Today's Environment – Education & IT

n Future Directions – Keys to Effective Training

# Path to Professionalization

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- n Difference between occupation and profession
  - n Involves intellectual operations
  - n Derives material from science
  - n Involves definite and practical ends
  - n Possesses an educationally communicable technique
  - n Tends to self-organize
  - n Is altruistic

*Cervero (1988)*

# Path to Professionalization (cont.)

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- n Two-year perspective

- n Increase educational level

- n Increased education equates to increased earning potential

- n Improves community

# Path to Professionalization (cont.)

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- n Past Ten Years (1995 – 2005)

- n 1995

- n Move from office/educational to home-based computing

- n Cell phones established, but “voice-only”

- n Data systems still wired

- n Computer science means programming

- n 2005

- n Pervasive computing environment

- n Cell phones offer voice and data capabilities

- n Wired and wireless systems

- n Educational options abound

# Today's Environment

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- n Educational opportunities
  - n Management
  - n Networking
  - n Programming
  - n Service and support
  - n Systems administration

# Today's Environment (cont.)

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- n Educational providers
  - n Secondary
  - n Post-secondary
  - n Online and classroom
  - n Specialized providers
  - n OJT

# Today's Environment (cont.)

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- n Two-year perspective
  - n Provide opportunities
  - n Meaningful instruction
  - n Cater to four-year institutions
  - n Tailor offerings to community

# Future Directions

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- n Government Perspective (2004 – 2014)
    - n Labor force will increase 10%
    - n Information jobs will increase 11.6%
    - n Internet jobs will increase an average of 45%
- United States (2006)*

# Future Directions (cont.)

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- n Fastest growing and largest increases
  - n Doctoral – computer & info sciences, research
  - n Bachelor+ – computer & info systems managers
  - n Bachelor – computer & software engineers, application/systems
  - n Associate – computer support specialists

*United States (2006)*

# Future Directions (cont.)

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- n Corporate Perspective (2006 – 2010)
  - n Less emphasis on “hard” skills
  - n More emphasis on “renaissance” abilities
    - n Leadership & management
    - n Analysis & design
- n 6 of 10 IT workers will assume business roles  
*Collett (2006)*

# Future Directions (cont.)

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- n Two-year perspective
  - n Create life-long learners
  - n Increase professional opportunities
    - n Security
    - n Data
    - n Facing applications
- n Seek corporate and educational partnerships

*Collett (2006)*

# Future Directions (cont.)

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## n Successful Partnerships

### n *Central Piedmont Community College*

- n Program has an 85% completion rate
- n 72% of completers find work in their chosen profession within 9 months
- n 1 in 4 of the completers seek additional education

*Embry (2006)*

### n *Minneapolis Community and Technical College*

- n Partnership with local hospital
- n 1,000 enrollees since 2000
- n Average starting salary \$11/hour
- n Those that left jobs to enroll report a 27% increase in earnings

*Foote (2006)*

# Summary

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- n Professionalization is the key
- n Create “Yearn to learn”
- n Seek out skills that provide the most opportunity for students
- n Future efforts must include corporate and educational cooperation

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