

## Technology Applied to Instruction

### Integrating Technology into 21<sup>st</sup> Century Classrooms

#### Educ 572 \* Unit 1 Lecture

Print Out the Study Guide PP for taking notes!  
Use Pause & Play along with Table of Contents!

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## Teaching & Learning...

- Teaching Strategies & Learning Styles...
- Alan Ornstein \* Effective Teaching: D,D,D (L) D/I C PS
- Howard Gardner \* Learning Styles: V V MBM I I
- Try to think about all TSs & LSs! Be flexible & adaptable!
  
- Inquiry Questions: (Start lesson with a topic! Handouts!)
- Start lesson asking before telling! End lesson with HW!
- Ask one, Ask another, Ask a third then (maybe help)
- form a consensus & summarize on whiteboard...

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## Technology Integration

- What is Technology Integration?
- Technology Integration Resources for 21<sup>st</sup> Century!
- Hardware: KB, M, M, P, Unit, Sps, Mic, S/W/C/C etc...
- Software: D&Ps, Ts, Ss, Gs, PSs, WP, SS, DB, PP, etc...
- Internet: Email, WWW, NLs/BBs, CRs/IMs, FTP(U/D)...
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- Motivation for Teacher & Students is attitudes! ☺
- The ARCS motivational model... Digital Kids!
- Later investigations will provide more in these areas...

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## Impacts on TI

- **Greatest impact on Educ Tech** has been **Microcomputer!**
- Pre-Microcomputer era...
- Microcomputer era... **Arthur Luehrmann**
- Internet (WWW) era...
- **Research has shown Technology Integration:**
- Performance, HO Thinking Skills, Problem Solving
- Motivates, Interest, Prepares, At Risk...
  
- **Chip in Stone: Teachers will always be more important...**

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## Today's TI Issues...

- Issues from Society... **Demands...**
- Issues from Education... **Standards...**
- Issues of Race & Gender... **Equity...**
- Issues of Legal & Ethics ... **Downloads...**
  
- **Many demands & pressures on Teachers of Today!**
- **Students, Parents, Administrators, Society, Teachers...**
  
- **Teaching Today is Tough! Teachers know it for sure!**

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## Future of TI

- Emerging TI Trends... **Wireless & Virtual Reality!**
- Casts, Blogs, Tubes, Texting, Games, Videos, etc...
- **ISTE, NETS-T, NETS-S, AASA... Standards!!!**
- NEA, OEA, Regional, Local... **They should help!**
- **Online Teaching at all levels K-16 and above...**
- Online courses are **permeating** all levels of education!
- TI increases demands on knowledge, skills, dispositions...
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- **TI Textbook provides more information in these areas...**

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## 21<sup>st</sup> Century Resources

- **Online** Reference Dictionaries    Webopedia, NetLingo...
- **Online** Reference Encyclopedias    E for ET, ARCET...
- **Online** Language Translators    Google Tools & Check...
- **Online** World, National, Local News    **Google News**...
- **Online** Buying and Selling    eBay & Amazon...
- **Online** Courses **and** Degrees    So many...    Google...
- **Online** Personal Information (?)    ID Theft, SS#,    DLs
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- **Online Resources** are **growing & expanding**...    So fast!!!

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## How can I start TI?

- **Becoming** a 21<sup>st</sup> Century Teacher...    Schedule Time!
- Professionals **keep up** with Professions...    Newsletters!
- **Integrating Technology for Teachers**...    Use WP & PP!
- **Integrating Technology for Students**...    Involve!
- Teaching **more with** Online Materials...    Comfortable!
- Learning **more with** Online Materials...    Kids do!
- **Becoming** a Self-Learner & Life Long Learner...
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- In my Opinion! **Use Traditional & Contemporary together!**

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## Conclusion Unit 1

- Teaching and Learning:    T Strategies & L Styles...
- Technology Integration has **many viewpoints**...
- Influences on TI    **past, present, future**...
- Critical Issues involve **demands & pressures**...
- The Future of TI is moving **fast forward**...
- 21<sup>st</sup> Century Resources are **vast** yet **accessible**...
- Many Benefits of TI for **Students & Teachers**...
- @ **Pause & Play** along with Table of Contents @
- **Lecture, Textbook, Investigations, Case Studies, TDs**...

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