

William Paterson University
College of Education
Department of Educational Leadership and Professional Studies

COURSE OUTLINE

Theme: Preparing Inquiring Educators for Diverse Settings: Developing Knowledge, Applications, Dispositions

1. Course Number and Title: ELCL 6250, Leadership and Learning Technologies (3 graduate credits)

2. Course Description:

In this culminating Learning Technologies content course, students will use the skills and knowledge they have gained throughout the program to explore ways in which new technology strategies can be used to promote systemic change aligned with national and state policy. Students will design a school or district-wide educational technology proposal meant to address one or more benchmarks put forth in the Educational Technology Plan for New Jersey. In addition, students will explore the potential of technologies to bring about change in classroom practice and curriculum on a local, state, national and international scope.

3. Pre- or Co-Requisites: CIEE 605 or ELCL 605 and CIEE 612 or ELCL 612

4. Course Objectives: To enable students to:

1. Review the procedures, policies, planning, budgeting and curricular issues that are relevant to the integration and use of technology in a school setting; demonstrate leadership and vision to help students, peers and all other stakeholders effectively use and embed technology throughout the curriculum in the schools.
2. Explore the effectiveness of technology in bringing about change in education and understand the importance of research in this, whether the change occurs with a single student or an entire educational organization
3. Begin a research agenda of a technology application based on the overarching goal of bringing valuable and realistic reform to an educational experience.
4. Use technology to increase their own productivity

5. Student Learning Outcomes: Students will be able to:

1. Demonstrate knowledge of the basic concepts and foundations to be considered in the use of technology in educational systems, the use of administrative and instructional technologies and applications, and the processes, procedures and policies that go into planning and implementing an educational technology plan by reviewing a district's plan.
2. Demonstrate an understanding of the issues, assumptions and theories related to learning technologies by discussing the effect of technologies in education and implications for broader educational change.
3. Demonstrate leadership and vision in the field of learning technologies by preparing a proposal that will help their district meet at least one of the benchmarks of the NJ Educational Technology

Plan.

4. Use technology to increase personal productivity and professional practice by putting together a personal online electronic portfolio based on ISTE Technology Facilitator standards

Alignment to ISTE/NCATE Technology Facilitator (TF), WPU Advanced Competencies and New Jersey Professional Standards for Teachers

SLOs	TF Standard	WPU Competency	NJPST
Demonstrate knowledge of the basic concepts and foundations (SLO#1)	VIII.A, VIII.B, VIII.C, VIII.D	1.a, 1.b, 1.c; 6.a	8.i, 8.ii, 8.iii; 10.i, 10.ii, 10.iii; 11.i, 11.ii, 11.iii
Demonstrate an understanding of the issues, assumptions and theories related to learning technologies (SLO#2)	VIII.A, VIII.B, VIII.D	1.a; 5.e, 5.i, 5.j; 6.c	10.ii, 10.iii; 11.i, 11.ii, 11.iii
Demonstrate leadership and vision (SLO#3)	II.B, II.C, III.E, IV.C, V.C, VI.A, VII.B, VIII.A, VIII.B, VIII.C, VIII.D	1.a, 1.b, 1.c, 1.d; 4.a, 4.b, 4.c, 4.d; 6.a, 6.c, 6.e, 6.f	4.i, 4.ii, 4.iii; 8.i, 8.ii, 8.iii
Use technology to increase personal productivity (SLO#4)	V.A, V.B, V.C, V.D	1.a, 1.b, 1.c, 6.a, 6.d	10.i, 10.ii, 10.iii

Standards link: <http://www.wpunj.edu/coe/resources/standads.dot>

6. Course Content:

1. Information and Communication Technologies (ICTs) and educational change.
2. ICTs as an educational panacea – a historical perspective.
3. The impact of ICTs on change in classroom practice and pedagogical trends.
4. ICTs and the curriculum at the local, state, national and international level
5. State, national and international technological literacy standards. Lower-order and higher-order technology literacy skills. Revised NETS-S and NETS-T standards and the focus on higher-order skills and learner-centered education.
6. State, national and international ICTs in Education policies. What are educational technology policies and plans? What are the political, economic and social/cultural bases for the policies?
7. Local district technology plans: what are they for, what they include (see NJDOE Three Year Local District Technology Plan Checklist - <http://www.nj.gov/education/techno/localtech/checklist.htm>).
8. SWOT (strengths, weaknesses, opportunities, threats) analysis of a local district technology plan implementation.
9. Educational technology grant proposals: how to write them, what to include, what to ask for; including budget and resource needs for a sustainable project (e.g. Total Cost of Ownership - <http://www.classroomtco.org/>)
10. Your educational philosophy – why do we have “education”? what is the role of education in today’s world?
11. Adding to an electronic portfolio based on the ISTE "Technology Facilitator" standards

7. Teaching/Learning Methods:

1. Online discussion and resource sharing
2. Assigned book readings

8. Student Assessment/Evaluation Methods: Student evaluation will be based on:

1. Online discussions and chapter readings in Educational Technology Leadership and Planning and SWOT analysis of local district technology plan (SLO#1)
2. Short papers on: the effectiveness and role that technology has played and might play in bringing about systemic change in our educational system, including curricular and organizational change; preparation of students for a global 21st century economy; and the role and purpose of education in general (SLO#2)
3. In-depth educational technology project proposal for meeting one or more benchmarks in The Educational Technology Plan for New Jersey (http://www.nj.gov/njded/techno/state_plan.htm) including needs assessment of current implementations and procedures, background review, detailed project plan, budget, and evaluation plan (SLO#3)
4. Learning Technologies E-portfolio (SLO#4)

9. Recommended Texts/Readings:

Friedman, T. (2007). *The world is flat 3.0: A brief history of the twenty-first century*. New York: Picador/Farrar, Straus and Giroux

Picciano, A. (2006). *Educational leadership and planning for technology. 4/E*. Upper Saddle River: Prentice Hall/Allyn&Bacon.

10. Bibliography:

Books/Documents

Cuban, L. (1986). *Teachers and machines: The classroom use of technology since 1920*. New York: Teachers College Press.

Friedman, T. (2006). *The world is flat: A brief history of the twenty-first century*. New York: Farrar, Straus and Giroux/ Macmillan

Fullan, M. (2007). *The new meaning of educational change*. New York: Teachers College Press

Frazier, M. & Bailey, G. (2004). *The technology coordinator's handbook*. Eugene, OR: ISTE

Haddad, W., (2007). ICT in education toolkit. InfoDev (WorldBank). Available online at http://www.ictinedtoolkit.org/usere/p_page.php?section_number=0

International Society for Technology in Education (2000). *Connecting curriculum and technology: national educational technology standards for students curriculum series*. Eugene, OR: ISTE

International Society for Technology in Education (2001). *Technology facilitation standards*. Eugene,

- OR: ISTE. Available online at
http://www.iste.org/Content/NavigationMenu/NETS/ForTechnologyFacilitatorsandLeaders/Technology_Facilitation_Standards.htm
- International Society for Technology in Education (2002). *National educational technology standards for teachers: Preparing teachers to use technology*. Eugene, OR: ISTE
- International Society for Technology in Education (2003). *National educational technology standards for teachers—resources for assessment*. Eugene, OR: ISTE
- International Society for Technology in Education (2007). National Educational Technology Standards for Students (NETS-S). Eugene, OR: ISTE. Available online at
http://www.iste.org/Content/NavigationMenu/NETS/ForStudents/NETS_for_Students.htm
- International Society for Technology in Education (2008). National Educational Technology Standards for Teachers (NETS-T). Eugene, OR: ISTE. Available online at
http://www.iste.org/Content/NavigationMenu/NETS/ForTeachers/NETS_for_Teachers.htm
- Kozma, R. & Voogt, J. (2003). *Technology, innovation, and educational change: A global perspective*. Eugene, OR: ISTE
- New Jersey Department of Education (2004). New Jersey core curriculum content standards for technological literacy. Available online at <http://www.nj.gov/education/aps/cccs/tech/>
- New Jersey Department of Education. (2007). *Preparing today for tomorrow- The educational technology plan for New Jersey*. Available online at
http://www.nj.gov/education/techno/state_plan.htm
- Picciano, A. (2006). *Educational leadership and planning for technology*. 4/E. Upper Saddle River: Prentice Hall/Allyn&Bacon.
- Rogers, E. (2003). *Diffusion of innovations*, 5/E. New York, NY: The Free Press
- Tyack, D. & Cuban, L. (1995). *Tinkering toward utopia: A century of public school reform*. Cambridge, MA: Harvard University Press
- U.S. Department of Education. (2005). *National education technology plan*. Available online at
<http://www.ed.gov/about/offices/list/os/technology/plan/2004/site/edlite-default.html>
- U.S. Department of Labor. (1991). *What work requires of schools: A SCANS report for America 2000*. Available online at <http://wdr.doleta.gov/SCANS/whatwork/>
- Whitehead, B., Jensen, D., Boschee, F., (2003). *Planning for technology: A guide for school administrators, technology coordinators, and curriculum leaders*. Thousand Oaks, CA: Corwin Press

Refereed Journals:

- Contemporary Issues in Technology and Teacher Education (CITE) Journal: <http://citejournal.org>
- *EDUCAUSE Quarterly*: <http://connect.educause.edu/eq>
- Innovate: Journal of Online Education: : <http://innovateonline.info>
- Journal of Computing in Teacher Education (JCTE)
- Journal of Educational Multimedia and Hypermedia (JEMH)
- Journal of Interactive Learning Research (JILR)
- Journal of Research on Technology in Education (JRTE)
- Journal of Technology and Teacher Education (JTATE)
- T.H. E. Journal - <http://www.thejournal.com/>
- Teachers College Record - Technology: <http://www.tcrecord.org/ContentCollection.asp?cid=16>

Professional Organizations:

- Association for Educational Communications and Technology (AECT)- <http://aect.org/>
- Association for the Advancement of Computing in Education (AACE) - <http://www.aace.org/>
- Consortium for School Networking (CoSN): <http://www.cosn.org/>
- Educational Technology page at NJDOE: <http://www.nj.gov/education/techno/>
- International Society for Technology in Education (ISTE) - <http://www.iste.org/>
- International Technology Education Association (ITEA): <http://www.iteaconnect.org>
- New Jersey Association for Educational Technology - <http://www.njaet.org/>
- New Jersey Department of Education (NJDOE): <http://www.state.nj.us/education/>
- NJEDge.Net - New Jersey's Higher Education Network: <http://www.njedge.net/>
- New Jersey Educational Computing Cooperative: <http://www.njecc.org/>
- Partnership for 21st Century Skills: <http://www.21stcenturyskills.org/>
- Regional Technology in Education Consortia (R*TEC): <http://www.rtec.org>
- Society for Information Technology and Teacher Education: <http://site.aace.org/>
- State Educational Technology Directors Association (SETDA): <http://www.setda.org/>
- US Department of Education, Office of Educational Technology (OET): <http://www.ed.gov/about/offices/list/os/technology/>

11. Preparer's Names and Date: Hilary Wilder, November, 2003

12. Department Approval Date: January, 2004

13. Reviser's Name and Date: Hilary Wilder, October 28, 2008

14. Department Revision Approval Date: