William Paterson University
College of Education
Department of Early Childhood and Elementary Education
Wayne, New Jersey

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

COURSE OF STUDY

1. **Title and Number of Credits:** CIEC 601 Technology in Early Childhood Education (3 graduate credits)

2. **Course Description:** The primary focus of this hybrid class is for students to examine and use technology more extensively in their own early childhood classrooms and for professional development. Technology skills and concepts are defined as productivity tools, digital tools, the World Wide Web, weblogs, adaptive and assistive technologies, ethical and legal responsibilities and software applications. Graduate students will integrate the NJ Core Curriculum Content Technology Standards, the Preschool Teaching and Learning Technology Standards, and the ISTE Technology Standards into early childhood classrooms.

3. **Pre- or Co-requisites:** Basic technology skills

4. **Course Objectives:**
   1. Evaluate usefulness and appropriateness of technology in early childhood programs based on theories of child development and developmentally appropriate practice.
   2. Discuss technology issues including bilingual and ESL student populations, diverse student populations, including children with autism, universal design, the digital divide, multiculturalism, and equity.
   3. Use technology applications, including SMART board, for curriculum.
   4. Use technology to communicate with families, community members and other professionals through a website designed by the graduate student.
   5. Use technology for professional development.
   6. Recognize the social, ethical, legal and human issues surrounding the use of technology with young children.

5. **Student Learning Outcomes:** The graduate student will be able to:
   2. Demonstrate an understanding of current educational technology standards, innovations and best practices. Use the computer, Internet, and other basic components of technology necessary for early childhood classroom and personal use and incorporate technology into the early childhood curriculum by integrating
technology creating an online evaluation survey for a target audience (NETS-T I, II, III).

3. Demonstrate an understanding of how to build a professional website integrating Web 2.0 and other software technologies (teacher tube, voice thread, and or podcasting) (NETS-T I, II, III, IV).

4. Share and communicate an understanding of building a professional website and integrating software technologies (NETS-T I, II, III, V) in an oral presentation.

<table>
<thead>
<tr>
<th>Student Learning Outcomes</th>
<th>NJ Teaching Standards</th>
<th>NAEYC Advanced Standards</th>
<th>NCATE Standards</th>
<th>WPU/COE Advanced Competencies</th>
<th>NJ DOE ECE/CCCS Standards</th>
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<td>5</td>
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<td>5. b, c, d, k</td>
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6. **Course Content:**

1. What can we do as early childhood educators to meet National, State and District standards – tying them all together
   a. ISTE Standards - Teacher and Student Standards
   b. NJ CCCS for preschool, kindergarten and early elementary grades (1-3)
   c. NAEYC Position Statement on Technology and Young Children

2. What is Universal Design and how does it relate to your early childhood classroom use of technology? How do you support children with special needs?
   a. Adaptive Technology - Accommodations and modifications
   b. No tech, low tech, and high tech
   c. Young children’s needs and assistive devices
3. Addressing equitable access
   a. Gender bias
   b. Digital divide

4. The World Wide Web
   a. Online resources
   b. Web 2.0
   c. Wikis, Google Earth
   d. Email options for large files

5. District Policies
   a. What are the individual district internet usage policies
   b. Netiquette: Equitable, Ethical, Legal Issues
   c. Plagiarism and copyright laws [http://cweb.loc.gov](http://cweb.loc.gov)

6. Using Peripherals
   a. Digital cameras, scanners, and video
   b. Using cameras to tell the story
   c. Interpreting the story board

7. Unit of Study Web Plans
   a. Integrating technology into learning centers/subject areas
   b. Aligning activities with NJCCCS/NJ Preschool Teaching and Learning Standards

8. Using multimedia tools
   a. Movie maker/i movie
   b. Teacher tube/u-tube
   c. Voice thread
   d. Podcasts
   e. Converting wave files to MP3

   a. Developing a plan
   b. Layout and design
   c. Uploading content
   d. How to hyperlink and using tiny url

10. Using technology for professional evaluation and practice
   a. Creating electronic surveys
   b. Looking for patterns in the data

7. **Teaching/Learning Methods:**
   1. In class and online lectures and discussions
   2. Multimedia presentations
3. Software technology application demonstrations
4. Readings
5. Digital submission of all assignments

8. **Evaluation Methods:**

1. Student Learning Outcome #1: Web integrating technology into a Unit of Study in the early childhood classroom
2. Student Learning Outcome #2: Online survey for a target audience
3. Student Learning Outcome #3: Website Building
4. Student Learning Outcome #4: Oral presentation of website with integration of software applications

9. **Recommended Readings:** Current primary and secondary research articles, websites, podcasts, research papers and book chapters. These are updated each time the course is offered because of the nature of the field of technology.

   National Association for Young Children Position Statement Young Children and Technology
   [http://www.naeyc.org/about/positions/PSTech98.asp](http://www.naeyc.org/about/positions/PSTech98.asp)


10. **Preparers’ Names and Date:** Dr. Holly Seplocha & Cindy Gennarelli M.Ed. 2004

11. **Original Department Approval Date:** Spring, 2004

12. **Reviser’s Name and Date:** Cindy Gennarelli M.Ed. & Dr. Janis Strasser 2010

13. **Department Revision Approval Date:** Spring 2010

14. **Bibliography:**


Learning Technology Journals:
Converge - http://www.convergemag.com
Distance Educator - http://www.distance-educator.com
eLearn - http://www.elearnmag.org/index.cfm
eSchool News - http://www.eschoolnews.com/
technologyLearning - http://www.techlearning.com/content/

Organizations:
Association for Educational Communications and Technology - http://aect.org/
Association for the Advancement of Computing in Education - http://www.aace.org/
International Society for Technology in Education - http://www.iste.org/
National Association for the Education of Young Children – http://www.naeyc.org
New Jersey Association for Educational Technology - http://www.njaet.org/

Internet Resources
**Cyber-ethics**
A Visit to Copyright Bay - http://www.stfrancis.edu/cid/copyrightbay/
CERIAS K-12 Teacher Resources - http://www.cerias.purdue.edu/k-12/teachers/material_details.php
CyberSmart! Home - http://www.cybersmart.org/home/
Safe and Ethical Use of Computers - http://www.state.nj.us/njded/techno/htcrime/aup.htm

**Software**
Edmark.com - http://www.edmark.com/
Knowledge Adventure Studio Game Index - http://www.vugames.com/vug/studio_index.do?studioId=5
Riverdeep For Teachers - http://www.riverdeep.net/for_teachers/for_teachers.jhtml
Scholastic Teachers - http://teacher.scholastic.com/
Welcome to Learning Company Online Store - http://www.learningco.com

**Teaching Resource Sites**
America's Library - http://www.americaslibrary.gov/cgi-bin/page.cgi
BBC - Schools - Homepage - http://www.bbc.co.uk/schools/
Busy Teachers' Web site - http://www.ceismc.gatech.edu/busyt/homepg.html
Casa de Joanna French Resources - http://members.aol.com/jporvin/cs_fren.htm
eduScapes A Site for Life-long Learners - http://eduscapes.com/
Field Trips Site - http://www.field-trips.org/
Finding Information on the Internet Table of Contents - http://www.lib.berkeley.edu/TeachingLib/Guides/Internet/FindInfo.html
HICE Palm Pages - http://www.handheld.hice-dev.org/
iEARN Homepage - http://iearn.org/
International Reading Association http://www.reading.org/General/Default.aspx
IPL Kidspase Culture Quest - http://www.ipl.org/div/kidspase/cquest/
http://www.jigzone.com
K12Handhelds - http://www.k12handhelds.com/
LEARNWEB at Project Zero - http://learnweb.harvard.edu/
http://library.thinkquest.org
MarcoPolo Internet Content for the Classroom, providing professional development and lesson plans based on K-12 curriculum - http://marcopolo.worldcom.com/
Memory.Loc.Gov - http://memory.loc.gov/
New Jersey Department of Education New Jersey Core Curriculum Content Standards - http://www.state.nj.us/njded/cccs/
NJ PEP - http://www.njpep.org/
PBS TeacherSource - http://www.pbs.org/teachersource/
http://www.pdictionary.com
PrimaryGames.com - The Fun Place to Learn! - http://www.primarygames.com/
ProTeacher! The Web's Little Secret For Elementary School Teachers - http://www.proteacher.com/
http://www.randomhouse.com/seussville/games
SBC Pacific Bell Knowledge Network Explorer Online Learning Blue Web'n Homepage http://www.kn.pacbell.com/wired/bluewebn/
Teacher Created Materials Free Stuff - http://www.teachercreated.com/free/
Teachers Network - http://www.teachersnetwork.org/
The Teacher Channel offers lesson plans, teaching worksheets and free stuff for teachers - http://school.discovery.com/teachers/
Think.com - http://www.think.com/
http://weather.yahoo.com
Welcome to AOL@SCHOOL - http://school.aol.com/
The WebQuest Page at San Diego State University - http://webquest.sdsu.edu/
WebQuests - http://sesd.sk.ca/teacherresource/webquest/webquest.htm
http://www.wordals.net