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

1. Course Number and Title: ELCL 6120, Assessing Educational Achievement with Technology (3 graduate credits)

2. Course Description:
This course focuses on the use of technology to assess, evaluate and manage students' academic development. Students will learn how to use standard office applications including database and spreadsheet programs to chart a learner's status and progress as well as the use of newer technologies such as handheld and online assessment tools and commercially available integrated learning management systems. This course will also explore the use of technology for facilitating alternative, performance-based assessment methods such as electronic portfolios for evaluating achievement on curriculum content and technology literacy standards.

3. Pre- or Co-Requisites: matriculation into the Learning Technologies concentration; CIEE 605 or ELCL 605

4. Course Objectives: To enable students to:
1. Apply technology to assess and evaluate student learning of curriculum content, in accordance with state standards
2. Use technology to aid in the collection, interpretation, communication and utilization of student assessment and evaluation data to manage and improve instruction and student learning.
3. Apply a variety of methods for determining students' technological literacy, including alternative assessment methods
4. Apply a variety of methods for determining teachers' technological literacy.
5. Use technology to increase their own productivity

5. Student Learning Outcomes: Students will be able to:
1. Plan and manage resources and strategies for student achievements which meet the NJ Core Curriculum Standards by using a database
2. Track student achievement using a spreadsheet
3. Assess and evaluate student achievement of subject matter and technology skills with a formative e-portfolio system
4. Identify necessary professional technology skills by creating a technology literacy self-assessment for fellow teachers
5. 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

<table>
<thead>
<tr>
<th>SLOs</th>
<th>TF Standard</th>
<th>WPU Competency</th>
<th>NJPST</th>
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</thead>
<tbody>
<tr>
<td>Plan and manage resources and strategies (SLO #1)</td>
<td>I.A; II.A; II.B; II.C; II.D; II.E; III.A; III.B; III.C; III.E; III.D</td>
<td>1.a, 1.b, 1.d</td>
<td>1.i, 1.iii; 4.i, 4.ii, 4.iii</td>
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<tr>
<td>Track student achievement (SLO #2)</td>
<td>IV.A, IV.B, VII.A, VIII.D</td>
<td>1.a, 1.d</td>
<td>5.i, 5.ii, 5.iii</td>
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<td>Assess and evaluate student achievement (SLO #3)</td>
<td>IV.A, IV.A, IV.B, IV.C, VII.A, VIII.D</td>
<td>1.a, 1.d</td>
<td>5.i, 5.ii, 5.iii</td>
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<tr>
<td>Identify necessary professional technology skills (SLO #4)</td>
<td>V.C; VII.A</td>
<td>1.a, 1.d; 6.a, 6.g</td>
<td>9.iii; 10.i, 10.ii, 10.iii</td>
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<tr>
<td>Use technology to increase personal productivity (SLO#5)</td>
<td>V.A, V.B, V.C, V.D</td>
<td>1.a, 1.b, 1.c, 6.a, 6.d</td>
<td>10.i, 10.ii, 10.iii</td>
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Standards link: http://www.wpunj.edu/coe/resources/standards.dot

6. Course Content:
1. Current political educational trends: NCLB accountability and data-collection/management requirements; national assessment policies
5. Commercial technologies for learning assessment and management, e.g. integrated learning systems, handheld assessment tools.
7. Alternative assessment methods - e-portfolios for learning (formative), assessment (summative) and employment (professional development); NAEP Technology-Based Assessment Project - http://nces.ed.gov/nationsreportcard/studies/tbaproject.asp
8. Assessing technological literacy for teachers and students.

7. Teaching/Learning Methods:
1. Lecture with whole group and small group discussions (both in-class and on-line)
2. Computer demonstration
3. Computer lab participation
4. Assigned readings
5. Multi-media presentations

8. Student Assessment/Evaluation Methods: Student evaluation will be based on:
1. Database of strategies and activities for student learning (SLO #1)
2. Spreadsheet for tracking student achievement (SLO #2)
3. Facilitation and evaluation plan for student learning e-portfolio (SLO #3)
4. Teacher technical skills survey (SLO #4)
5. Start or continuation of technology facilitator e-portfolio (SLO#5)
6. Class attendance, participation and contributions to online and in-class discussions will also be counted

9. **Suggested Readings or Required Texts:**

10. **Bibliography:**

Books/Documents


**Refereed Journals:**
- *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)
- 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/
- 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 Department of Education (NJDOE): http://www.state.nj.us/education/
- 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:**