William Paterson University  
College of Education  
Department of Elementary and Early Childhood Education

Theme: Preparing Inquiring educators: Knowledge, Understanding, and Application

Course of Study

1. **Course Title and Number of Credits**: CMAT 516 Integrating Technology Into the Curriculum (2 graduate credits)

2. **Course Description**

   This is an introductory course in the use of technology in the teaching/learning process. Students learn how to infuse technology in classrooms across grades and curricula. They explore and investigate the various uses of computers, including on-line applications, software applications and other technologies. Students discuss contemporary technology issues, read relevant literature, and use technology appropriately in an interdisciplinary unit plan which addresses NJCCCS as well as technology literacy standards.

3. **Prerequisites**: Admission to the MAT program

4. **Course Objectives**: 

   1. Be able to effectively use standard information and communication technologies
   2. Be familiar with current international, national and state educational technology standards and trends
   3. Evaluate educational technology designs and uses and recognize the underlying pedagogical philosophies that they support
   4. Integrate information and communication technology appropriately into core curriculum (math, science, language arts and social studies) lesson plans
   5. Recognize the role that information and communication technologies might play in serving diverse learners, non-traditional students or students with special needs
   6. Demonstrate lifelong learning skills using online resources and other information and communication technologies
   7. Discuss contemporary technology issues and topics such as the digital divide, copyright and fair use, Acceptable Use Policies, filtering pros and cons, and cyber-safety


   Students will be able to:

   1. Demonstrate an understanding of effective technology integration and current educational technology standards by developing a grade-specific unit plan and
2. Demonstrate an understanding of how to use and formulate criteria to critically evaluate an educational technology that reflects current best practices and accepted theories of learning by preparing a brief evaluation of an educational software program, web site or other technology. Evaluation will include criteria of developmental appropriateness and use by diverse/special needs learners as well as content and technological soundness. (NETS-T: II.C; NJTS: 2, 3, 7)
3. Demonstrate an ability to create technology-based learning products that are developmentally appropriate and motivationally sound by creating an educational presentation which utilizes technology (ex. a slideshow presentation). (NETS-T: I.A, II.A; NJTS: 1, 4, 8)
4. Demonstrate an ability to use technology for educational and professional tasks and lifelong learning as well as research and reflect on technology issues and their ethical, social, legal and human impacts by contributing to online discussions. (NETS-T: I.B, II.BC, III.ABCD, V.ABCD, VI.ABCDE; NJTS: 6, 9, 10)
5. Demonstrate an understanding of the use of technology for evaluation and alternative assessment techniques, in addition to demonstrating the ability to be a highly qualified inquiring educator by starting an electronic teaching portfolio. (NETS-T: IV.ABC, V.ABCD; NJTS: 5, 10)

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<tr>
<th>SLO</th>
<th>NJ Teaching Standard</th>
<th>ISTE Standard</th>
<th>NJCCC Standard</th>
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<tr>
<td>1. creation of a unit plan and assessment rubric, aligned to core curriculum standards.</td>
<td>1 4 5</td>
<td>I.A II.ABDE III.ABCD V.C</td>
<td>8.1.A</td>
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<td>2. evaluation of an educational technology product</td>
<td>2 3 7</td>
<td>II.C</td>
<td>N/A</td>
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<tr>
<td>3. creation of a technology-based teaching product</td>
<td>1 4 8</td>
<td>I.A II.A</td>
<td>8.1.A</td>
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<td>4. contribute to whole class discussions about educational technology issues and explore the ethical, social, legal and human impacts of technology</td>
<td>6 9 10</td>
<td>I.B II.BC III.ABCD V.ABCD VI.ABCDE</td>
<td>8.1.B</td>
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<tr>
<td>5. beginning of an electronic teaching portfolio</td>
<td>5 10</td>
<td>IV.ABC V.ABCD</td>
<td>N/A</td>
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6. Course Content:
1. Using technology (e-mail, Blackboard and the WWW) to become a lifelong, inquiring educator
2. Using an online electronic portfolio (LiveText) to demonstrate becoming a highly-qualified NJ educator
3. National and state educational technology standards (NETS-S, and NJCCCS 8.1 & 8.2 for K-12 students, NETS-T for teachers)
4. Learning theories and instructional design and appropriate use of technology in the classroom
5. Evaluating educational technology: appropriateness, philosophical alignment, usefulness in the classroom, etc.
6. Integration of general application software instruction into the core curriculum
7. Use of educational web sites, educational software and other educational technologies to facilitate student learning in the core curriculum
8. Using technology to meet the requirements of diverse learners and special needs populations
9. Using technology for assessment and evaluation
10. Using technology to communicate with students, parents and the community
11. Discussion of contemporary technology issues (security and privacy rights, plagiarism and copyright laws, digital equity, etc.)

7. Teaching/Learning Methods: This class will be online.
1. Online presentation of session material
2. Online self-check (ungraded) quizzes
3. Online session discussions
4. Online research assignments

8. Assessment (Performance Based): Student evaluation will be based on: (Refer to Student Learning Objectives for first four evaluation items)
1. Technology infused unit plan that address NJCCCS 8 and NETS-S objectives as well as basic NJ Core Curriculum Standards. This includes an assessment rubric - which can be created as a spreadsheet to automatically calculate and aggregate grades.
2. Educational technology evaluation - which can be formatted as a web page for sharing with other educators
3. Educational presentation - which can be designed as a reusable learning object for use in a variety of lessons
4. Contribution to online discussion of Web-based resources for professional growth and teaching and contemporary issues (including using the Internet to find resources such as lesson plans, career opportunities, etc. as well as contemporary technology trends and concerns).
5. Development of an electronic teaching portfolio, based on the 10 NJ Teaching Standards. The e-portfolio will include the above presentation, as well as artifacts from other education courses and experiences.
6. Online class participation.
9. Texts/Readings:

Required Software
College LiveText subscription. CD-ROM available at the WPUNJ bookstore or online at http://college.livetext.com/college/index.html.

Suggested (Optional) Books:

10. Preparer's Names and Date: Dr. Barbara Rosenfeld & Dr. Mark Rodriguez, March 29, 1999

11. Department Approval Date: Spring, 2003

12. Reviser's Name and Date: Dr. Hilary Wilder, November 3, 2004

13. Department Revision Approval Date: Fall, 2004

14. Bibliography:

Books


