

UNIVERSITY OF BRITISH COLUMBIA

Master of Educational Technology (MET)
Winter 2011

ETEC 511: Foundations of Educational Technology

Version 2.3 (Sect. 64a, 64b, 64c, 64d, 64e)

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Course Description:

“Educational foundations” and “curriculum foundations” were, from the 1930s up until the mid 1980s, generally understood as the convergence of 4-5 disciplines applied to the study of education. Cultural and social foundations underlying education (including curriculum and pedagogy) as studied through anthropological, comparative, economic, historical, phenomenological, philosophical, political, psychological and sociological inquiry constituted the field. Journals like *Educational Foundations*, *Educational Theory* and *Interchange* articulated these disciplinary and interdisciplinary discourses. As critical, feminist, postcolonial, and poststructural studies began to erode away some foundations in the 1980s, the field of educational foundations faced a crisis of unity and purpose. This erosion and crisis continue today. “Foundation” as a useful metaphor was questioned in an era of postmodernism, poststructuralism and a deconstruction of “solid truths” and what Lyotard called “grand narratives” or metanarratives. The cultural and social foundations of education *and* technology more or less collapsed. Hence, the “foundations of educational technology” are never straightforward or stable.

Texts (Required):

ETEC 511 Readings. (@ UBC Blackboard Vista Shell)

Valued Ends of the Course:

Our intention is to help you develop a framework for exploring and understanding the foundations of e-learning, educational technology, learning technologies, and new media as unsettled and lived by students and teachers. We will encourage you to examine your own biases toward the foundations of media and technology, and a major effort will be in providing you with a background for research into the foundations of e-learning, educational technology, learning technologies, and new media. We will also emphasize e-Learning and ET with SOUL.

Assessment (for details, see below):

	Deadline:
1. Participation in Online Activities (20%)	Ongoing
2. Theorizing Educational Technology (20%)	11 Oct
3. Discourse Leadership (groups of 3-4) (20%)	Ongoing
4. Scholarly Essay or Essay Review (40%)	5 Dec

- **Academic Honesty and Standards, and Academic Freedom:** *UBC Calendar*
- **Policies and Regulations (Selected):** <http://www.students.ubc.ca/calendar>
- **Academic Accommodation for Students with Disabilities:** Students with a disability who wish to have an academic accommodation should contact the Disability Resource Centre without delay (see UBC Policy #73 www.universitycounsel.ubc.ca/policies/policy73.pdf).

Grading Guidelines

Approved July 2008

A level - Good to Excellent Work

- A+ (90-100%) A very high level of quality throughout every aspect of the work. It shows the individual (or group) has gone well beyond what has been provided and has extended the usual ways of thinking and/or performing. Outstanding comprehension of subject matter and use of existing literature and research. Consistently integrates critical and creative perspectives in relation to the subject material. The work shows a very high degree of engagement with the topic.
- A (85-89%) Generally a high quality throughout the work. No problems of any significance, and evidence of attention given to each and every detail. Very good comprehension of subject and use of existing literature and research. For the most part, integrates critical and creative perspectives in relation to the subject material. Shows a high degree of engagement with the topic.
- A- (80-84%) Generally a good quality throughout the work. A few problems of minor significance. Good comprehension of subject matter and use of existing literature and research. Work demonstrates an ability to integrate critical and creative perspectives on most occasions. The work demonstrates a reasonable degree of engagement with the topic.

B level - Adequate Work

- B+ (76-79%) Some aspects of good quality to the work. Some problems of minor significance. There are examples of integrating critical and creative perspectives in relation to the subject material. A degree of engagement with the topic.
- B (72-75%) Adequate quality. A number of problems of some significance. Difficulty evident in the comprehension of the subject material and use of existing literature and research. Only a few examples of integrating critical and creative perspectives in relation to the subject material. Some engagement with the topic.
- B- (68-71%) Barely adequate work at the graduate level.

NOTE: For UBC's Faculty of Graduate Studies (FOGS), a final mark below 68% for Doctoral students and below 60% for Masters students is the equivalent of a Failing mark.

C & D level - Seriously Flawed Work

- C (55-67%) Serious flaws in understanding of the subject *material*. Minimal integration of critical and creative perspectives in relation to the subject material. Inadequate engagement with the topic. Inadequate work at the graduate level.

D level

- D (50-54%)

F level - Failing Work

- F (0-49%)

ETEC 511 Course Schedule & Readings:

Each module generally consists of activities, readings, chat and discussion. Readings for each module include a balance of activities, often supplemented by image and sound resources.

Date	Module	Assignments	Live Forum	Themes & Topics
Week 1 6-10 Sept	#1	Course & WebCT Intro		Course introduction, Online connections, Mapping & Definitions
Week 2 11-17 Sept	#2		Vancouver Time TBA	Philosophy of Educational Technology
Technical-Empirical Dimensions of Educational Technology				
Week 3 18-24 Sept	#3		Vancouver Time TBA	Design of Educational Technology
Week 4 25 Sept-1 Oct	#4		Vancouver Time TBA	Ethics & Jurisprudence of Educational Technology
Ethical-Personal & Socio-Political Dimensions of Educational Technology				
Week 5 2-8 Oct	#5		Vancouver Time TBA	Anthropology & Sociology of Educational Technology
Week 6 9-15 Oct	#6	Theorizing ET due	Vancouver Time TBA	History of Educational Technology
Week 7 16-22 Oct	#7		Vancouver Time TBA	Politics of Educational Technology
(Week 8) 23-29 Oct Reading Break				
Week 9 30 Oct-5 Nov	#8	Essay Proposal Due	Vancouver Time TBA	Psychology & Phenomenology of Educational Technology
Week 10 6-12 Nov	#9		Vancouver Time TBA	Economics of Educational Technology
Ecological-Natural Dimensions of Educational Technology				
Week 11 13-19 Nov	#10		Vancouver Time TBA	Ecology of Educational Technology
Existential-Spiritual Dimensions of Educational Technology				
Week 12 20-26 Nov	#11		Vancouver Time TBA	Spirituality of Educational Technology
(Week 13) Scholarly Essays & Essay Reviews				
Week 13 27 Nov-3 Dec	-	Scholarly Essay Due		Course Feedback

Module 1
Introduction / The Definition of Educational Technology:
Grand and not so Grand Narratives

Readings / Media:

1. Januszewski, A. (2001). *Educational technology: The development of a concept*. Englewood, CO: Libraries Unlimited.
2. Dorbolo, J. (2004). Review of *Educational technology: The development of a concept*. *Ethics and Information Technology*, 5(1), 68-70. **Library Portal Access.**
3. Loh, C. S. (2007). A suitable textbook for the classroom. However... Review of the *SAGE handbook of e-learning research*. *Educational Researcher*, 36(9), 573-578. **Library Portal Access.** See also <http://www.odlqc.org.uk/n19-e.htm>.
4. Scanlon, I. (2002). Educational technology: The influence of theory. *Journal of Interactive Media in Education*, 6, 1-19. **Library Portal Access.**
5. Petrina, S. & Feng, F. (2008). *Primer for defining and theorizing technology in education, pt. 1*. Vancouver, BC: Tech no-Printing Press. **See module 1.**

Module 2
The Philosophy of Educational Technology:
Philosophical Foundations

Readings / Media

1. Knowlton, E. (1992). The hand and the hammer: A brief critique of the overhead projector. *Feminist Teacher*, 6(2), 21-23, 41. **Library Portal Access.**
2. Adams, C. (2008). The poetics of PowerPoint. *Explorations in Media Ecology*, 7(4), 283–289. **Library Portal Access.**
3. Tufte, E. R. (2003, September). PowerPoint is evil. *Wired*, 11(9).
4. Heidegger, M. (1953/1977). The question concerning technology. In M. Heidegger, *The question concerning technology and other essays* (trans. W. Lovitt) (pp. 3-35). New York: Harper & Row.

Technical-Empirical Dimensions of Educational Technology

Module 3
The Design of Educational Technology:
Curriculum and Instructional Design Foundations

Readings / Media

1. Mayer, R. A. (2003). Elements of a science of e-learning. *Journal of Educational Computing Research*, 29(3), 297-313. **Library Portal Access.**
2. Kozma, R. B. (1994). Will media influence learning? Reframing the debate. *Educational Technology Research and Development*, 42(2), 7-19. **Library Portal Access.**
3. Clark, R. E. (1994). Media will never influence learning. *Educational Technology Research and Development*, 42(2), 21-29. **Library Portal Access.**

Module 4
The Ethics & Jurisprudence of Educational Technology:
Legal Foundations

Readings / Media

1. Philip, K. (2005). What is a technological author? The pirate function and intellectual property. *Postcolonial Studies*, 8(2), 199-218. **Library Portal Access.**

Module 5
The Anthropology & Sociology of Educational Technology:
Cultural and Social Foundations

Readings / Media

1. Monahan, T. (2005). Technological cultures. In *Globalization, technological change and public education* (pp. 73-92). New York: Routledge.
2. Petrina, S. (2007). *What is culture?* Vancouver, BC: Tech no-Printing Press. **See module 5 (read only as reference).**

Module 6
The History of Educational Technology:
Historical Foundations

Readings / Media

1. Paul, R. (Executive Producer) & Petrina, S. (2002, October 11). *The magic box: Technology in education* (Sound Recording). Washington, D.C.: National Public Radio, Sound Prints. **See module 6.**
2. McLuhan, M. (1967). The medium is the message. *NEA Journal*, 56(7), 24-27.
3. Moody, K. (1999). *The children of Telstar*. New York: Vantage.

Module 7
The Politics & Political Economy of Educational Technology:
Political Foundations

Readings / Media

1. Haraway, D. (1985). A manifesto for cyborgs. *Socialist Review*, 15(2), 65-107.

Module 8
The Psychology & Phenomenology of Educational Technology:
Psychological & Phenomenological Foundations

Readings / Media

1. Turkle, S. (2004). Whither psychoanalysis in computer culture. *Psychoanalytic Psychology*, 21(1), 16-30. **Library Portal Access.**
2. Dall'Alba, G. & Barnacle, R. (2005). Embodied knowing in online environments. *Educational Philosophy and Theory*, 37(5), 719-744. **Library Portal Access.**

Module 9
The Economics of Educational Technology:
Economic Foundations

Readings / Media

1. Puryear, J. M. (1999, September). The economics of educational technology. *TechKnowLogia*, 46-49.
2. Lerner, J. & Triole, J. (2002). Some simple economics of open source. *Journal of Industrial Economics*, 50(2), 197-234. **Library Portal Access.**

Ecological-Natural Dimensions of Educational Technology

Module 10 The Ecology of Educational Technology: Ecological Foundations

Readings / Media

1. Merchant, C. (2002). A conversation with Carolyn Merchant. *California Monthly*, 112(6). **Library Portal Access.**
2. Zhao, Y. & Frank, K. (2003). Factors affecting technology uses in schools: An ecological perspective. *American Educational Research Journal*, 40(4), 807-840. **Library Portal Access.**

Existential-Spiritual Dimensions of Educational Technology

Module 11 The Spirituality of Educational Technology: Spiritual Foundations

Readings / Media

1. Davis, E. (1993). Techgnosis: Magic, memory, and the angels of information. *South Atlantic Quarterly*, 92(4), 585-616. **Library Portal Access.**
2. Feng, F. & Petrina, S. (2010). The flesh is willing but the spirit is weak. Unpublished manuscript. Introduction to *Technology, Religion, Spirituality and the Sacred*. **See module 11.**

Participation & Assignments

Participation:

Participation is valued at 20% of your final grade. We refer to the scholarly level of participation as **academic conversation**, which entails a variety of things including academic conversation, articulation and presentation. Participation is interdependent with **preparation** for each module, which involves **reading** (highlighting, pagination post-its, margin notes, comments & questions, etc.), **writing** (posting to discussions, note-taking, outlining, questioning, defining, mapping, framing, summarizing, journaling, blogging, podcasting, exposition, etc.), **organizing** (documenting, labeling, ordering, archiving, filing, sequencing events, chronicling, etc.), **reflecting** (rethinking, reincorporating, remapping, analyzing, synthesizing, etc.), and **speaking** (podcasting, corresponding with peers, chat, etc.). One goal of preparation is to sustain increasingly sophisticated academic conversations or engagement with the readings, course and peers. A second goal is to develop systematic approaches for engaging with the readings and your peers (i.e., developing reading, speaking, writing, organizing, and reflection form(at)s and styles that are effective). **Read for Meaning along with Purpose...**

Participation

	Low-----	Avg-----	High
Appropriately and accurately articulates key constructs and themes in readings, etc.	1-----	3-----	5
Reveals an attempt to synthesize knowledge of media and technology in education (readings, etc.).	1-----	5.5-----	10
Advances collective knowledge and consciousness by engaging with authors, peers, instructors in the online course	1-----	3-----	5
Total:	xx / 20		

Assignments

2. Theorizing Educational Technology (20%)— Theorize an application / app, artifact, device, technique, or process related to ET. *Ideally, this would be the same or closely related to the topic chosen for the scholarly essay (see below).* For help on the process of theorizing consult the Writing Guide for Graduate Students and read closely the way that Knowlton (1992) theorizes the overhead projector and how Adams (2008) and Tufte (2003; 2006) analyze PowerPoint. Modes of theory include comedy and tragedy, critique and deconstruction, myth and irony, or combinations. Hence, theory does not always reduce to critique and criticism.

Include one toon / image (i.e., at least one ‘cell’) with the essay. Cartooning and spoofing have always been a tradition or foundation of ET. For example, the *Educational Technology Magazine* ran a longstanding series of comics through the 1960s and 1970s and collated these in *The Educational Technology Cartoon Book*. Applications such as Comic Life, Toonlet (toonlet.com), and Pixton (pixton.com/ca/) make tooning ET not only possible but expected and essential. *See the images that accompany Knowlton (1992) and Tufte (2003; 2006).

This essay should include a definition, explanation, development and details and, if applicable, examples. This is a common “pyramid structure” used in many encyclopedias. In the opening paragraph, the first few sentences clearly describe and define the topic and explain its importance to educational technology, e-learning, instructional design, etc.

Keep the essay as jargon-free as possible. View this from a perspective of preparing a speech rather than writing an essay. In this way, we can describe complex issues in thoughtful ways without being needlessly complicated. Use direct quotations from other works sparingly but include citations of publications (e.g., APA citations, etc): If you must quote, please limit to one or two sentences or so and acknowledge the source (APA style). Focus on the topic and avoid digressions. Every word is important.

Theorizing ET Essay Length: 700 words (e.g., 2 pages single-spaced + toon / image) (input into the Media Library and submit a note indicating completion to the Assignment Dropbox ***with a MS Word or pdf file attached**). Please be sure that your entry meets but does not exceed this word count. Word counts include the topic, your name, title, and references.

Theorizing Educational Technology

Low-----Avg-----High

Clarity of Communication / Grammar / Style

1-----5.5-----10

Depth, Comprehensiveness & Substance of Theory & Toon

1-----5.5-----10

Total: xx / 20

3. Scholarly Essay (40%)— Choose a topic that corresponds with one of the weekly topics (i.e., foundations) or themes and write a scholarly paper exploring media and technology in education (i.e., apps, artifacts, devices, problems, processes, trends, etc.). The essay should provide a clear, cogent, concise exploration or case study of the topic (e.g., topics within or about e-learning, educational technology, learning technologies, ICT, new media, instructional design, curriculum design, etc.). Take a position (state a thesis or argument) and provide evidence, through examples and narrative, to support the position. Be creative and choose a topic that really interests you!

At the 2/3-point of the course (Monday following the break), please also submit a *one page outline* of your paper as a work in progress. Outline = outline form. This includes the:

1. Topic
2. Theme and argument
 - a. The argument or thesis
 - b. The background
3. Primary and Secondary sources for insight into the topic
 - a. Issues to be addressed
 - b. Literature to be consulted
4. Provisional conclusions drawn from the argument & issues or data
5. Structure / sections of the paper, etc.

Assessment: (Limit to 10-12, tight well-written double-spaced pages including title page (limit to 3000 words + references) (upload to Assignment Dropbox and link to e-Portfolio).

1. Clarity of communication / writing
 - a. Is the writing clear and concise?
 - b. Are the ideas focused and organized?
2. Development of argument / thesis
 - a. Is the argument coherent? Thoughtful? Analytical? Critical? Sophisticated?
3. Exploration of content and theory
 - a. Is there evidence of critically and theoretically exploring the issues?
 - b. Are the ideas theorized, synthesized, extended or applied?
4. Examples
 - a. Are examples sufficient? Do examples ground the paper?
 - b. Are there narrative examples?
5. Grammar & Style
 - a. Organization, sentence structure, paragraphs, spelling
 - b. APA Style (format, references)

Scholarly Essay

Low-----Avg-----High
Clarity of communication/writing 1-----5.5-----10
Development of argument / thesis 1-----3-----5
Exploration of content and theory 1-----5.5-----10
Provision of effective and sufficient examples 1-----5.5-----10
Grammar & Style 1-----3-----5
Total: xx / 40

or Essay Review (40%)— Choose a topic that corresponds with one of the weekly topics (i.e., Jurisprudence of ET) or themes and write an essay review exploring the foundations of ET. Drawing on 7 - 10 carefully selected and relevant research articles or a smaller number of books (2 - 3), write a critical essay review on a topic within or about ET, ID, e-Learning, new media, etc. Establish the purpose for your review and the approach you will use in the introduction. Provide enough of a summary of each source (article, book, etc.) so that the readings are understandable to a general reader of your essay. The purpose of your review should establish the basis of your analysis / synthesis. You may choose to critique the articles and texts based on some of the assigned course readings. Strive for clarity and conciseness in your writing by trying to keep your audience in mind.

At the 2/3-point of the course (following the break), please also submit a *one page outline* of your paper as a work in progress. Outline = outline form (see details above).

Assessment: (Limit to 10-12, tight well-written double-spaced pages including title page (limit to 3000 words + references) (upload to Assignment Dropbox and link to e-Portfolio).

1. Overview / Introduction of subject, theories and issues involved
 - Type of essay review (theory, methodology, policy, quantitative research, qualitative research, etc.)
 - Scope: what type of resources are best?
 - Search for information: wide enough and narrow enough
2. Categories selected as natural divides of thesis and reviewed sources
 - Sources organized around the research question or thesis
 - Areas of controversy or debate included
3. Analysis and interpretation of overarching similarities and variances of ideas: Include
 - Provenance: credentials, evidence
 - Objectivity: authors' point of view and representation of other views
 - Persuasiveness: which theses are most convincing v least?
 - Value: Does this work contribute in a significant way to understanding the subject?
4. Summation or conclusions of thesis generating idea in context with materials reviewed
 - What is known and not known
 - Areas of further research
 - Relevant, appropriate and, useful
5. Grammar & Style

- Organization, sentence structure, paragraphs, spelling
- APA Style (format, references)

Essay Review

	Low-----Avg-----High
Overview / Introduction of subject, theories and issues involved	1-----5.5-----10
Categories selected as natural divides of thesis and reviewed material	1-----3-----5
Analysis and interpretation of overarching similarities and variances of ideas	1-----5.5-----10
Summation or conclusions of thesis generating idea in context with materials reviewed	1-----5.5-----10
Grammar & Style	1-----3-----5
Total: xx / 40	

4. Discourse Leadership (20%)— Choose one week and topic on the schedule to coordinate the module. It will be your responsibility to clearly re/present the topic and reading(s), and to coordinate the discussions. Please use the approach indicated below. Format: Group Project—groups of 4. For the discussion that you lead, please prepare to:

1. Outline the readings (primary and secondary sources) and post this outline to the group.
2. Provide a brief overview of the readings based on the outline.
3. Define key terms or methodological and theoretical concepts that are challenging.
4. Design handouts, discussion questions and presentation media for clarifying the readings.
5. Design activities for the group with attention to inclusive participation. Possible activities include:
 - Discussion focus questions and moderation of discussion forums
 - Chat / Live Forums or Live Classroom
 - Wiki / Interactive Web / Prezi
 - Voice & Podcast, etc.
6. Moderate and bring closure to the topic for the week.

*After completion, please upload note indicating completion to the Assignment Dropbox.

Discourse Leadership

	Low-----Avg-----High
Addresses key concept(s) in readings	1-----5.5-----10
Sufficient examples from readings are provided & synthesizes with previous readings	1-----3-----5
Communication and media are professional in format— Style is clean and coherent	1-----3-----5
Total: xx / 20	

Journals in Technology and Education

1. [American Journal of Distance Education, The](#)
2. [Asynchronous Learning Networks Magazine](#) (electronic) (see also Journal of ALN)
3. [Australian Journal of Educational Technology](#)
4. [British Journal of Educational Technology](#)
5. [Canadian Journal of Learning Technology](#)
6. [Canadian of Science, Math and Technology Education](#)
7. [College & University Media Review: A Look at Practices, Trends, & Research](#)
8. [Computers & Education](#)
9. [Computers and Composition](#)
10. [Computers in Human Behavior](#)
11. [Computers in Libraries](#)
12. [Contemporary Issues in Technology & Teacher Education](#) (electronic)
13. [Currents in Electronic Literacy](#)
14. [Education and Information Technologies](#)
15. [Educational Media International](#)
16. [Educational Technology Magazine](#)
17. [Educational Technology Research and Development](#)
18. [Educational Technology Review](#)
19. [Educational Technology Review](#) (electronic)
20. [EDUCAUSE Quarterly](#)
21. [EDUCAUSE Review](#)
22. [Electronic Journal for the Integration of Technology in Education](#)
23. [Human-Computer Interaction: A Journal of Theoretical, Empirical, & Methodological Issues of User Science and of System Design](#)
24. [Information Society, The: An International Journal](#)
25. [Information Technology in Childhood Education Annual](#)
26. [Information Technology and Disability](#)
27. [Information Technology, Education and Society](#)
28. [Innovations in Education & Teaching International](#)
29. [Instructional Science](#)
30. [Interactive Multimedia Electronic Journal of Computer-Enhanced Learning](#) (electronic)
31. [International Journal of AI in Education](#)
32. [International Journal of Technology and Design Education](#)
33. [International Journal of Educational Technology](#)
34. [International Journal of Instructional Media](#)
35. [International Journal on E-Learning](#)
36. [International Review of Research in Open and Distance Education](#)
37. [Internet and Higher Education, The](#)
38. [Internet TESL Journal, The](#)(electronic)
39. [Journal of Asynchronous Learning Networks](#) (electronic) (see also ALN Magazine)
40. [Journal of Computer Assisted Learning](#)
41. [Journal of Computer Based Instruction](#)
42. [Interpersonal Computing and Technology Journal](#) (electronic)
43. [IT Journal Online](#)
44. [Journal of Computing in Higher Education](#)
45. [Journal of Computing Research](#)
46. [Journal of Distance Education](#)
47. [Journal of Educational Computing Research](#)
48. [Journal of Educational Media](#)
49. [Journal of Educational Multimedia and Hypermedia](#)
50. [Journal of Educational Technology Systems](#)
51. [Journal of IT Education](#)
52. [Journal of Information Technology for Teacher Education](#)
53. [Journal of Interactive Learning Research](#)
54. [Journal of Interactive Media in Education](#) (electronic)
55. [Interactive Multimedia Electronic Journal of Computer-Enhanced Learning](#)
56. [JOE: The Journal of Online Education](#)
57. [Journal of Research on Computing in Education](#)
58. [Journal of Science and Educational Technology](#)
59. [Journal of Special Education Technology](#)
60. [Journal of Technology and Teacher Education](#)
61. [Journal of Technology Education](#)
62. [Journal of Technology Studies](#)
63. [Learning & Leading with Technology](#)
64. [Learning Environments Research](#)
65. [Learning With Technology](#)
66. [Learning Technology](#)
67. [Mathematics and Computer Education](#)
68. [Media and Methods](#)
69. [Meridian: A Middle School Computer Technologies Journal](#)
70. [MultiMedia Schools](#)
71. [New Review of Hypermedia and Multimedia](#)
72. [Online Chronicle of Distance Education & Communication](#)
73. [Open Learning: The Journal of Open & Distance Learning](#)
74. [Quarterly Review of Distance Education, The](#)
75. [Syllabus](#)
76. [T.H.E. Journal](#)
77. [Teaching English with Technology: A Journal for Teachers of English](#) (electronic)
78. [Technology and Children](#)
79. [Technology & Learning](#)
80. [Technology, Pedagogy and Education](#)
81. [Technos](#)
82. [TechTrends](#)
83. [THEN: Technology, Humanities, Education & Narrative](#)
84. [WebNet Journal](#)