

## **737-003: Analyzing Video in Education Research**

**Thursdays, 4 to 7 pm**

**Fall 2006**

***Instructor: Prof. Jay Lemke***

This course aims to provide students with conceptual and methodological tools for using video and film data in research, including screen-capture video from computer applications. We will read classic and recent studies of the medium and of its applications in education research, view film and video, and examine tools for working with digital video data. A key premise of the course will be that in order to use video data critically in research, we need to understand our own broader cultural traditions of producing and viewing film and video. Students will be encouraged to pursue their individual research interests in work for the course.

The majority of readings, available online, will focus on the use of video in research in the Learning Sciences and in Education. We will also read a number of chapters from books dealing with the history and culture of film, television, and video in order to frame a wider perspective on issues of interpreting and analyzing video in research. For details regarding all Readings, see the Topic Outline below.

### **Books**

Eisenstein, S. (1943). *The Film Sense*. London: Faber.

Fiske, J. (1988). *Television Culture*. London: Routledge.

Goldman, R., Pea, R., Barron, B., & Derry, S. (Eds.). (2007). *Video research in the learning sciences*. Mahwah, NJ: LEA Publishing [VRLS].

-- Chapters by Goldman, Pea, Lemke, Erickson, Derry, Miller, Fishman, Tochon, Roth, Rogoff

Manovich, L. (2000). *The language of new media*. Cambridge, MA: MIT Press. [Selected sections]

Virilio, P. (1989). *War and Cinema: The Logistics of Perception*. London: Verso.

## **Films**

*To be examined in class in relation to specific Readings; not to be purchased for course.*

- Vertov, Dziga. 1924. *Kino-Eye*.
- Vertov, Dziga. 1929. *Man with a Movie Camera*.
- Eisenstein, Sergei. 1938. *Alexander Nevsky*.

## **Video**

We will view a number of research videos of various kinds, along with background information and analyses, drawn from a variety of subject areas and fields. There may be one or two background readings for the videos, which are not listed in the Topic Outline.

## **Software**

*To be examined in class; not to be purchased for course.*

- Transana
- StudioCode
- MCA-Pavia
- Atlas.ti
- Nvivo 7
- FRAPS
- Camtasia Studio

## **Topic Outline**

### **Introduction to the Course: Video and Us**

Video Epistemology In-and-Outside the Box: Traversing Attentional Spaces  
*Jay Lemke [VRLS]*

### **History of the Medium**

Manovich, L. (2000). *The language of new media*. [Prologue]

Eisenstein, S. (1943). *The Film Sense*. [chaps 2 & 4]

Virilio, P. (1989). *War and Cinema: The Logistics of Perception*.

Fiske, J. (1988). *Television Culture*. [chap 1]

#### *Films:*

Vertov, Dziga. 1924. *Kino-Eye*.

Vertov, Dziga. 1929. *Man with a Movie Camera*.

Eisenstein, Sergei. 1938. *Alexander Nevsky*.

## **Culture of the Medium**

Fiske, J. (1988). [chaps 2 & 3]

Manovich, L. (2000). [chap 2]

## **Video and the Research Process**

Video Workflow in the Learning Sciences: Prospects of Emerging Technologies for Augmenting Work Practices,

*Roy Pea & Eric Hoffert [VRLS]*

Orion, An Online Collaborative Digital Video Data Analysis Tool: Changing Our Perspectives as an Interpretive Community

*Ricki Goldman [VRLS]*

### ***Software tools:***

Transana

StudioCode

MCA-Pavia

Atlas.ti

Nvivo 7

FRAPS

Camtasia Studio

## **Data and Interpretation**

Video Representations & the Perspectivity Framework: Epistemology, Ethnography, Evaluation, and Ethics

*Ricki Goldman [VRLS]*

Goldman, R. (2004). Digital video design ethnography as a vehicle for change. *Cambridge Journal of Education*, 34(2), 147-168.

Learning from Video: Problems and Prospects

*Kevin Miller [VRLS]*

Fiske, J. [chaps 4-6]

*Website:*

Goldman-Segall, R. (1998). *Points of Viewing Children's Thinking*.

<http://www.pointsofviewing.com/>

## **Transcription and Analysis**

Eisenstein, S. (1943) [chap 4, again]

Thibault, P. (2000). The multimodal transcription of a television advertisement: theory and practice.

Ways of Seeing Video: Toward a Phenomenology of Viewing Minimally Edited Footage  
*Frederick Erickson [VRLS]*

Erickson, F. (2006). Definition and Analysis of Data from Videotape: Some Research Procedures and their Rationales. In J. Green, G. Camilli & P. Elmore (Eds.), *Handbook of Complementary Methods in Education Research*. Mahwah, NJ: LEA.

Lemke, J. L. Notes on multimedia semiotic analysis.

Cobb, P., & Whitenack, J. (1966). A method for conducting longitudinal analyses of classroom videorecordings and transcripts. *Educational Studies in Mathematics*, 30, 213-228.

Fiske, J. [chaps 7-8 ]

## **Data Archives**

*We will examine video data and archives from several research projects.*

## **Video Applications in Education Research**

Epistemic Mediation: Video Data as Filters for the Objectification of Teaching by Teachers  
*Wolff-Michael Roth [VRLS]*

From Video Cases to Video Pedagogy: A Framework for Video Feedback and Reflection in Pedagogical Research Praxis  
*Francois Tochon [VRLS]*

Video Research in Classroom and Teacher Learning (Standardize That!)  
*Sharon Derry*

Fostering Community Knowledge Sharing Using Ubiquitous Records of Practice  
*Barry J. Fishman [VRLS]*

## **Additional Bibliography**

Allen, R., & Hill, A. (Eds.). (2003). *The television studies reader*. London: Routledge.

Baldry, A., & Thibault, P. (2005). *Multimodal transcription and text analysis*. London: Equinox Publishing.

Corner, J. (1999). *Critical ideas in television studies*. London: Oxford University Press.

Goldman-Segall, R. (1998). *Points of Viewing Children's Thinking*. Mahwah, NJ: Erlbaum.

Hall, Stuart. (1997). *Early Writings on Television*. London: Routledge.

Williams, Raymond. (1974). *Television, Technology and Cultural Form*. London: Fontana.

Green, J, Camilli, G, & Elmore, P., (Eds.). 2006. *Handbook of Complementary Methods in Education Research*. Mahwah, NJ: LEA.