Learning & Instruction in the Disciplines

Course Code: 12924234

Instructor: Dr. Iris Tepper

Objectives:

- Introduction to learning and instruction
  - Knowledge-building processes
  - Declarative, procedural and epistemological knowledge
  - Transfer and inertial knowledge
  - Learning as a community

- Social construction of disciplines

- Learning and teaching in mathematics

- Learning and teaching in the sciences

- Learning and teaching in history

- Orientation

- Integrative and multi-disciplinary learning

Relevant Skills:

- Master all relevant skills
- Analytical thinking
- Research and writing papers
- Reading and understanding
- Critical thinking
- Written work
- Learning and teaching methodology
- Learning and teaching evaluation
- Learning and teaching presentation
- Orientation
- Integrative and multi-disciplinary learning
**רשימה ביבליוגרפית:**


Dr. S. C. Cantrell, Dr. L. D. Burns, & Dr. P. Callaway. (2008). Middle-and high-school content area teachers’ perceptions about literacy teaching and learning. *Literacy Research and Instruction, 48*(1), 76-94.


Dr. T. Koschmann, Dr. A. Zemel, Dr. Conlee-Stevens, Dr. N. P. Young, Dr. J. E. Robbs, & Dr. A. Barnhart. (2005). How do people learn? *Barriers and Biases in Computer-Mediated Knowledge Communication*, 265-294.


Course Name: Learning & Instruction in the Disciplines

Number: 1292042301- 12924234

Lecturer: Dr. Iris Tabak

Instruction Objectives:
Disiplines are distinguished based on their knowledge goals, processes of knowledge construction, justification, etc, and based on their surrounding socio-cultural context (e.g., the role that Mathematics has taken on as a tool of evaluation and selection in education, or the societal privileging of natural science over the humanities). These distinctions play a role in processes of learning and instruction. The course will examine general issues in learning and instruction, and those pertinent to disciplinary differences.

Chapters:
- General introduction to learning and instruction
  - Processes of knowledge construction
  - Declarative, procedural and epistemological knowledge
  - Transfer and inert knowledge
  - Learning as socialization
- Social construction of academic disciplines
- Learning and instruction in Mathematics
- Learning and instruction in Science
- Learning and instruction in History
- Literacy
- Integrated and multi-disciplinary learning and instruction
**Requirements:**

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<thead>
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<th>Requirement</th>
<th>Weight</th>
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<tr>
<td>Attendance (requires) &amp; Participation:</td>
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<td>Assignments (reaction papers, leading discussion)</td>
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<td>Final Paper</td>
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**Bibliography:**

The bibliography includes both reading assignments and additional resources.


