Industrial Revolution/Information Revolution: A Comparative Perspective

For a regularly updated version of this syllabus, go online to http://www.oberlin.edu/GJK/IR2/.

This course examines multiple dimensions of two long-term, technologically based social processes that have profoundly transformed how Americans live, work, relate to one another, and think about the world. We will begin with the history of American industrialization in the nineteenth century and then turn our attention to the Information Revolution currently underway. Among the issues we will explore are the relationship between technological progress and the distribution of wealth and opportunity in the United States, the impact of technology on gender roles and the sexual division of labor, the experience of community and alienation in different technological contexts, people's perceived sense of time and space, and utopian and dystopian visions of the future. Throughout the semester, we will endeavor to identify parallels and key differences between the Industrial and Information Revolutions so as to better understand what is and is not unique about the contemporary situation.

Evaluation: Final grades will be based on a ten-page analytical essay (35%), a group project (35%), contributions to the Blackboard CourseInfo discussion group (15%), and in-class participation (15%).

Purchases: The following books are available for purchase at the Oberlin Bookstore.

- Gary J. Kornblith, ed., The Industrial Revolution in America
- William Cronon, Nature's Metropolis
- Edward Bellamy, Looking Backward
- Martin Campbell-Kelly and William Aspray, Computer
- Shoshana Zuboff, In the Age of the Smart Machine
- Roy Kurzweil, The Age of Spiritual Machines
- Neal Stephenson, The Diamond Age

Class Schedule:

Tues., Sept. 4

Introduction

- Thomas Jefferson, Notes on the State of Virginia, excerpts (online at http://www.oberlin.edu/~gkornbl/Hist258/NotesonVirginia.html)

Thurs., Sept. 6

Discussion: Definition and Overview of the Industrial Revolution

- David S. Landes, "The Fable of the Dead Horse; or, The Industrial Revolution Revisited," in Joel Mokyr, ed. The British Industrial Revolution, 2d ed., 128-59 (on ERes)
- Herbert G. Gutman, "Work, Culture and Society in Industrializing America, 1815-1919," American Historical Review, 78 (June 1973): 531-588 (on JSTOR via a College computer)
- John F. Kasson, "Republican Values as a Dynamic Factor,"in Kornblith, ed Industrial Revolution in America, 3-12
Tues., Sept. 11  
**Discussion: The Division of Labor and the Transformation of Work**  

Thurs., Sept. 13  
**Discussion: Mechanization and the Transformation of Work**  
- Karl Marx, *Capital*, vol. 1, ch. 15, sect. 1-5 (online at [http://csf.colorado.edu/psn/marx/Archive/1867-C1/](http://csf.colorado.edu/psn/marx/Archive/1867-C1/))

Tues., Sept. 18  
**Discussion: The American Experience of Early Industrialization**  

Thurs., Sept. 20  
**Discussion: Railroads, the Telegraph, and the Reorganization of Space and Time**  
- Richard R. John, "Recasting the Information Infrastructure for the Industria Age," in Alfred D. Chandler, Jr. and James W. Cortada, eds., *A Nation Transformed by Information*, 55-105 (on ERes) 

Tues., Sept. 25  
**Video: The Richest Man in the World: Andrew Carnegie**, 1

Thurs., Sept. 27  
**No class: Yom Kippur**
Tues., Oct. 2

Discussion: The Rise of Big Business and the Struggle for Control of Production

- Porter, *Rise of Big Business*, 1-90
- Andrew Carnegie, "The Gospel of Wealth" (online at http://xroads.virginia.edu/~7EDRBR/wealth.html)

Thurs., Oct. 4

Video: *The Richest Man in the World: Andrew Carnegie*, 2

Tues., Oct. 9

Discussion: The Dynamics of the National Marketplace

- Richard Ohmann, *Selling Culture: Magazines, Markets and Class at the Turn of the Century*, 48-117 (on ERes)

Thurs., Oct. 11

Video: *Mr. Sears' Catalogue*

Tues., Oct. 16

Discussion: Visions of the Future, 1

- Bellamy, *Looking Backward*, preface and ch. 1-10

Thurs., Oct. 18

Discussion: Visions of the Future, 2

- Bellamy, *Looking Backward*, ch. 11-28 and postscript

Sat., Oct. 20

Analytical essay due

Fall Break

Tues., Oct. 30

Lab: Creating Web Pages

Thurs., Nov. 1

Discussion: Definition and Overview of the Information Revolution

Manuel Castells, *The Rise of the Network Society*, vol 1 of *The Information Age: Economy, Society and Culture*, 2d ed., 1-76 (on ERes)

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**Tues., Nov. 6**

**Discussion: The Emergence of Computers**

- Campbell-Kelly and Aspray, *Computer*, 1-180
- Paul N. Edwards, *Closed World*, chap. 2 (online at http://www.si.umich.edu/~pne/PDF/cw.ch2.pdf)

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**Thurs., Nov. 8**

**Library Resources** (presentation by Haipeng Li in Mudd 443)

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**Mon., Nov. 12**

**Video: Triumph of the Nerds, episodes 1 and 2** (special meeting at 271 West College St., beginning at 7:30 p.m.)

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**Tues., Nov. 13**

**Video: Triumph of the Nerds, episode 3**

**Recommended:**

- Campbell-Kelly and Aspray, *Computer*, 181-282

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**Thurs., Nov. 15**

**Discussion: Computerization and the Transformation of Work**

- Zuboff, *In the Age of the Smart Machine*, xi-xv, 3-123, 224-84, 311-61, 384-414

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**Tues., Nov. 20**

**Discussion: Computer Networks, the Internet, and the Reorganization of Space and Time**

- Campbell-Kelly and Aspray, *Computer*, 259-300
- James Gleick, *Faster*, 65-76, 83-93 (on ERes)

**Recommended:**

Thurs., Nov. 22  
No class

Tues., Nov. 27  
Lab and discussion: The IR2 Website

Thurs., Nov. 29  
Discussion: The Rise of New Media, the Struggle for Control of Information and the Dynamics of the Global Marketplace

- Lee S. Spruill, "Computers in U.S. Households since 1977" in Chandler an Cortada, eds., Nation Transformed by Information, 257-80 (on ERes)
- Andrew Shapiro, The Control Revolution, 13-33, 40-59, 84-100, 217-230 (on ERes)
- Dan Schiller, Digital Capitalism, xv-xvii, 37-60, 82-113, 203-209 (on ERes)

Recommended:


Tues., Dec. 4  
Lab and discussion: The IR2 Website

Thurs., Dec. 6  
Discussion: Visions of the Future, 1

- Kurzweil, Age of Spiritual Machines, 1-156

Tues., Dec. 11  
Lab and discussion: The IR2 Website

Thurs., Dec. 13  
Discussion: Visions of the Future 2

- Stephenson, Diamond Age, entire
Group projects due