

**CITY, LANDSCAPE AND ECOLOGY**

Barnard + Columbia Colleges Architecture Department  
UN3120, Fall 2016

SYLLABUS v. 2.0

Tues. (lectures) / Thurs. (seminars) 4:10 - 6

Location: 501 Diana, Barnard

Ralph Ghoche, rghoche@barnard.edu

Office Hours: 500K Diana, Thurs. 1:15-2:30



Rick Guidice, Space Settlement, 1975

**COURSE DESCRIPTION**

*City, Landscape, Ecology* is a thematically driven course which examines issues and polemics related to landscape, land settlement and ecology over the past two centuries. The course is made up of discussion sessions and lectures. The purpose is to better understand the role that territorial and ecological organization plays in the construction of social practices, human subjectivities, and technologies of power.

*City, Landscape, Ecology* is divided into three parts:

Part 1 (Landscape), explores important episodes in the history of landscape: Picturesque garden theory, notions of “wilderness” as epitomized in national and state parks in the United States, Modern and Postmodern garden practices, and the prevalence of landscape in the work of artists in the 1960s and 70s.

We will turn to ecology and related issues of climate, urbanization and sustainability in Part II. Here we will examine the rise of ecological thinking in the 1960s; approaches to the environment that were largely based on the systems-thinking of the era. We will look at the work and theories of John McHale, Buckminster Fuller and Stewart Brand and place these approaches within a larger context of environmental awareness advanced by such pioneers as Rachel Carson, Gregory Bateson and Murray Bookchin. We also will examine ecological innovative approaches to building developed from the 1970s until today.

The course concludes with Part III (*Hybrid Landscapes*). At this important juncture in the course, we will ask the timely question: What is to be done today? We’ll examine the work of contemporary theorists, architects, landscape architects, policy makers and environmentalists who have channeled some of the lessons of the past in proposing lasting solution to our land management and ecological crises of the present and future.

## LECTURE SUMMARY

### 1. INTRODUCTION

#### PART I: LANDSCAPE

2. THE INVENTION OF WILDERNESS
3. MODERN AND POSTMODERN LANDSCAPES
4. TECHNOLOGY, TERRITORY AND POWER
5. LAND ART AND ENVIRONMENTAL SCULPTURE

#### PART II: ECOLOGY

6. FROM CONSERVATION TO ENVIRONMENTALISM
7. THE RISE OF ECOLOGICAL CONSCIOUSNESS
8. RADICAL AND DEEP ECOLOGIES

#### PART III: HYBRID LANDSCAPES

9. CONTEMPORARY ECOLOGIES
10. Guest Lecture: Andreas M Benzing on Passive House Construction
11. URBANIZATION AND LANDSCAPE FUTURES
12. Thanksgiving Holiday
13. Presentations
14. Presentations

## COURSE REQUIREMENTS

**Attendance:** Attendance to all course meetings is mandatory. An attendance sheet will be distributed at each meeting. More than two unexcused absences will lead to a reduction of one letter grade. More than four unexcused absences will lead to an automatic failure in the course. If you have a good reason for missing class, please inform the professor by email beforehand. If you do not have good reason for missing a class, inform the professor nonetheless.

**Readings:** There will be approximately 50-80 pages of reading a week. The readings will be posted online. All readings must be completed the night before the relevant seminar.

### Course Assessment and Grading:

Participation and Attendance ..... = 10%  
Weekly Reading Responses ..... = 10%  
Reading Presentation ..... = 10%  
Term Paper Presentation ..... = 15%

Term Paper Midterm Submission (1000 words) ..... = 15%

- Deadline: Tues. Oct. 18 : 1 paper copy to the writing fellow. 1.5 line spacing.
- Deadline: Thurs. Nov. 3 : Revised copy to me. Emailed as MAC pages or MS Word document.

Term Paper Final Submission (~3000 words)..... = 40%

- Deadline for final paper. Submission to writing fellows: Nov. 17.
- Deadline for final revised paper (approx. 3000 words) submission to me: Dec. 15.

### Discussion Participation

Students are expected to attend all Tuesday lectures and Thursday seminars, to do all seminar readings, to wisely and consistently contribute to the weekly seminar discussions. Discussions will cover explicit and implicit questions concerning landscape and ecology in modern culture, and should be used as an open forum for questioning. The discussions are also intended to foster student responsibility for self-directed learning.

## **Weekly Reading Responses**

Weekly Reading Responses are due Wednesday nights at midnight. I will set up online discussion boards for each week on courseworks. You will be able to see your classmates' responses only once you have added your own response to the forum. Once you have added your response, I recommend that you read some of the other responses on the forum.

For each of the 10 weeks of the course, you are asked to:

- write a 200-300 word response (no less, no more) to issues and polemics encountered in the readings for that week. In responding to the readings, you will need to briefly summarize the arguments that you feel are central to the week's theme.
- End your response with one question. The question should not seek a factual answer (how much..., when did.... etc.) but should address what you see as the main points of debate in the readings.

The purpose of weekly responses is three-fold:

- to demonstrate that you've read the assigned readings for the week.
- To show that, beyond simply reading the texts, you've thought about the central arguments and themes, that you've been able to draw connections between that week's various readings (and possibly, the readings from previous weeks), and finally, that you've been able to scale-up your thinking and consider some of the larger social / political / personal ... stakes involved.
- To prepare you for the Thursday seminar discussions. This is especially the case for the questions that I'm asking you to include at the end of your reading response. In seminar, I may ask you to read your questions to the class.

Your responses don't need to discuss all of the week's readings, although they should address most of them (at least two or three of the readings). The responses will be graded on a total of 1 point. In order to get a full 1 points, your response needs to demonstrate that you've read the readings and been able to focus on the main issues and arguments they present. For summaries that are poorly written, incomplete or do not demonstrate an adequate grasp of the material, students will get an R for the first couple of weeks, meaning that they'll need to resubmit the response within a week's time.

Late responses cannot be accepted.

## **Reading Presentations**

Each of you will be required to present once during seminar over the term. Depending on class size, there may be two presenters per seminar. Presenters for a given week will have to meet together and divide up the reading material in an equal and coherent way. Furthermore, as presenters you must each choose at least one building, urban scheme, or visual project to illustrate the main themes and questions addressed in the readings. You and your co-presenters will prepare a common powerpoint presentation that will integrate all material that might help foster a better class discussion and better dramatize the theories and ideas presented. You should provide comprehensive visual material (sketches, plans, maps, elevations etc...) for the building, urban scheme or visual project that you choose to present. Presentations should last a total of 15-20 minutes (for all presenters).

Presentations will be graded qualitatively according to this set of criteria:

- Clarity of thought: how well you can describe some of the more difficult and nuanced ideas and arguments in the readings. It is absolutely essential to gain a good grasp of the main themes elaborated in the readings. You'll probably need to read some essays twice and do additional research in order to get a proper handle on the material. Please take a look at the list of additional readings at the end of the syllabus. You may want to read some of them before your presentation.
- Visual presentation: Your presentation needs to be organized in a coherent way. You'll be marked on how well you can connect the ideas elaborated in the readings with the projects you choose to present.
- Originality and Unity of Thought: Your presentation should not follow the pace and narrative of the readings too strictly. In other words, you should identify the main themes and arguments

(thesis) of each reading and state them at the onset of your presentation rather than tediously going through every element of the author's argument. A great presentation will have clearly stated the main themes, arguments and will have identified the stakes of such arguments (Why is this important? What is the context? How does this argument/idea differ from other possible interpretations?).

### Term Paper and Term Paper Presentations

Each student will prepare a 12 page term paper (approx. 3000 words) based on the theme or topic of the student's choice. You must use footnotes following the *Chicago Manual of Style*, 16th edition.

You must all set up an individual appointment with me to discuss your paper topic ideas before Oct. 8.

Term Papers and Term Paper Midterm Drafts will be graded qualitatively according to this set of criteria:

- 1/3 of the grade will be based on the strength of the writing (grammar, sentence structure, spelling, proper citation format etc. )
- 1/3 on the paper structure: Clear thesis statement / thesis argument, clear flow of argumentation from one paragraph to another.
- 1/3 of the grade will be based on strength and persuasiveness of argumentation, originality of topic, originality of introduction and conclusion.

### Some writing problems to avoid:

1. Use of Quotations: The most common issue has to do with the use of quotations. Students often use quotations in order to avoid explaining a point or making an argument themselves. They often will insert a quotation directly into a paragraph without context and without mentioning the source. Many students will use quotations that are two to three sentences long without any analysis. As a general rule, quotations should be used sparingly and need to be explained and discussed by the student. It is often preferable to paraphrase a quotation in the student's own words and add a footnote citing the source.
2. Thesis Statement: All final papers must have a clearly articulated thesis statement (1-2 sentences long). Your thesis statement should focus on the larger stakes (why is this important? How does it add to or dispel some of our assumptions about subject X) and connect it to an existing discourse (this can be a discourse that we've examined in class or not...). A strong thesis statement will help structure your essay and give the reader a better sense of the purpose of each paragraph in the overall argument.
3. Run-On Sentences: Often, students will try and cram too many ideas into one sentence. This tends to lead to grammatical problems. Good writing often alternates between a short, declarative sentence, and longer descriptive sentences.

**Writing Center**: I strongly recommend that students with even minor difficulties with writing set up an appointment with the Barnard Writing Center before handing in assignments. <http://writing.barnard.edu>

### GRADING SCALE

97.5 - 10 = A+	87.5 - 89.9 = B+	77.5 - 79.9 = C+	67.5 - 69.9 = D+
92.5 - 97.4 = A	82.5 - 87.4 = B	72.5 - 77.4 = C	62.5 - 67.4 = D
90.0 - 92.4 = A-	80 - 82.4 = B-	70 - 72.4 = C-	60 - 62.4 = D-

Below 60 = F

### LEARNING OBJECTIVES

Upon successful completion of this reading and writing intensive course, the student will be able to:

1. Develop a critical understanding and awareness of some of the decisive ideas, theories and debates relating to landscape and ecology over the past two centuries.
2. Understand the role that territorial, landscape and ecological organization play in the construction of social practices, human subjectivities and political awareness.
3. Understand the way that discourses traditionally seen as external to the discipline of architecture inform and elucidate its practice and production.

4. To understand the ideological shifts in history that have shaped our notions of nature, landscape, and ecology.
5. Demonstrate the ability to read texts critically and to relate issues encountered in these texts to contemporary architectural discourse and practice.
6. Develop research, writing, and critical thinking skills through the research and writing of a series of reading summaries and a term paper that use textual and visual evidence to state a meaningful thesis.

#### **FILMS ON LANDSCAPE, ENVIRONMENTAL HISTORY AND ECOLOGY**

- *Brave New River*. Directed by Nicolas Renaud. Canada, 2012.
- *Up the Yangtze*. Directed by Yung Chang. Canada, 2007.
- *5 Films About Christo and Jeanne-Claude*. Directed by Albert Maysles, USA, 1974-1995.
- *Encounters At The End Of The World*. Directed by Werner Herzog, USA, 2007.
- *Manufactured Landscapes*. Directed by Edward Burtynsky and Jennifer Baichwal, 2006.
- *Darwin's Nightmare*. Directed by Hubert Sauper, 2004, Austria-France-Belgium.  
On Netflix:
- *Eco-Pirate: The Story of Paul Watson*. Directed by Trish Dolman, USA, 2011  
On Vimeo:
- *The Next Industrial Revolution*. Documentary on the architect Bill McDonough and chemist Michael Braungart, authors of *Cradle to Cradle: Remaking the Way We Make Things* (2002). Directed by Chris Bedford and Shelley Morhaim, USA, 2001.  
On Amazon Prime:
- *If a Tree Falls: A Story of the Earth Liberation Front*. Directed by Marshall Curry and Sam Cullman. USA, 2011.
- *Monumental: David Brower's Fight For Wild America*. Directed by Kelly Duane de la Vega. USA, 2005.
- *DamNation*. Directed by Ben Knight and Travil Rummel. USA, 2014.
- *Greenpeace: The Story*. Directed by Thierry de Lestrade. USA, 2011.
- *A Fierce Green Fire*. Directed by Mark Kitchell. USA, 2012.
- *The National Parks: America's Best Idea*. Directed by Ken Burns. USA, 2009.

#### **RELEVANT MUSEUMS, VISITS AND EXHIBITIONS**

- The Jewish Museum: Roberto Burle Marx. Closes Sept. 18.
- New Museum, Exhibition: "Pipilotti Rist: Pixel Forest." Opens Oct. 26.
- Storm King Art Center, New Windsor, NY
- Dia Beacon, Beacon NY
- Walter De Maria, The New York Earth Room, 1977. Long-term installation. Located at 141 Wooster Street. Wednesday–Sunday, 12–6 pm (closed from 3–3:30 pm)
- Ford Foundation Atrium. Design by Daniel Urban Kiley. 320 East 43rd Street, NY, NY.

#### **RELEVANT EVENTS AT GSAPP THIS SEMESTER**

TBA

#### **INFORMATION ABOUT THE WRITING FELLOWS PROGRAM**

One of the requirements of this course is working with a Barnard Writing Fellow. The Barnard Writing Fellows Program (founded in 1991) is designed to help students strengthen their writing in all disciplines. We believe that writing is a process; it happens in stages, in different drafts. Often the most fruitful dialogues about your writing occur with your peers, and the Writing Fellows are just that. They are not tutors or TAs; they are Barnard undergraduates who participate in a semester-long workshop in the teaching of writing and, having finished their training, staff the Barnard Writing Center and work in courses across the disciplines. It is not their role to comment on the accuracy of the content of your papers, nor to grade your work. They are not enrolled in your course. You will probably know more about the course's specific material than they do, and your papers must therefore be written clearly enough so that the non-expert can understand them.

Two dates are listed for each piece of writing assigned. You will hand in your first draft to your instructor on the first date, who will pass it on to your Writing Fellow. The Writing Fellow will read it, write comments, and conference with you on it for half an hour, after which you will have a week to revise the paper and hand in a final version on the second date.

Sign up for your Writing Fellow conference in class when you first hand in your paper. Conference locations will be indicated on the sign-up sheet. Please make a note of when and where you have scheduled your conference. Also, please make sure to record your Writing Fellow's email and phone number when you sign up for your conference in case you need to contact her.

The Head Writing Fellow for your course is Eva Dunsky (esd2129@barnard.edu; 310-488-3071).

---

CLASS           • = required reading  
SCHEDULE       - = recommended reading

### WEEK 1

### INTRODUCTION

- Tues. 9/6       • Giorgio Agamben, "What is the Contemporary" in *What is an Apparatus?* (Stanford U. Press, 2009), 39-54.  
Thurs. 9/8       • Elizabeth Kolbert, "Man in the Anthropocene," in *Field Notes from a Catastrophe: Man, Nature, and Climate Change* (Bloomsbury, 2015), 183-190.

## **PART I: LANDSCAPE**

### WEEK 2

### THE INVENTION OF WILDERNESS

- Tues. 9/13       • Thomas Cole, "Essay on American Scenery," (1836).  
Thurs. 9/15       • Frederick Law Olmsted, "Public Parks and the Enlargement of Towns," (1870) in *Frederick Law Olmsted, Essential Texts*, ed. R. Twombly (Norton, 2010), pp. 201-252.  
                      • Leo Marx, "The American Ideology of Space," in *Denatured Visions: Landscape and Culture in the Twentieth Century*, eds. Wrede and Adams (MoMA, 1991), 62-78.  
                      - Anne Whiston Spirn, "Constructing Nature: The Legacy of Frederick Law Olmsted," in *Uncommon Ground: Rethinking the Human Place in Nature* (W.W. Norton, 1996), 91-114.

### WEEK 3

### MODERN AND POSTMODERN LANDSCAPES

- Tues. 9/20 • Christopher Tunnard, "Towards a New Technique: Functional Aspects of Garden Planning," in *Gardens in the Modern Landscape* (The Architectural Press, 1938), 69-81.
- Thurs. 9/22 • Kenneth Frampton, "In Search of the Modern Landscape," in *Denatured Visions: Landscape and Culture in the Twentieth Century*, eds. Wrede and Adams (MoMA, 1991), 42-62.
- Caroline Constant, "The Once and Future Park: From Central Park to OMA's Parc de la Villette," in *The Modern Architectural Landscape* (U of Minnesota Press, 2012), 191-223.
- Marc Treib, "Postulating a Post-Modern Garden (orig. 1985)," in *Settings and Stray Paths: Writings on Landscapes and Gardens* (New York: Routledge, 2005), 206-219.

### WEEK 4

### TECHNOLOGY, TERRITORY AND POWER

- Tues. 9/27 **FILM:** Up the Yangtze. Directed by Yung Chang. Canada, 2007.
- Thurs. 10/29 • Martin Heidegger, excerpt from: 'The Question Concerning Technology', in *The Question Concerning Technology and Other Essays* (Garland, 1977), Focus mostly on pp. 12-23.
- David Nye, Chapter 2: "Does Technology Control Us?" in *Technology Matters: Questions to Live With* (MIT Press, 2006), 17-32.
- Gyorgy Kepes, "The Artist's Role in Environmental Self-Regulation," in *Arts of the Environment* (George Braziller, 1972). 167-197.
- J.B. Harley, "Maps, Knowledge and Power," in *The Iconography of Landscape: Essays on the Symbolic Representation, Design and Use of Past Environments* (Cambridge U Press, 1988), 277-312.

### WEEK 5

### LAND ART AND ENVIRONMENTAL SCULPTURE

- Tues. 10/4 • Robert Smithson, "A Sedimentation of the Mind: Earth Projects" (*Artforum*, September 1968) in Robert Smithson, *The Collected Writings*, ed. Jack Flam (U of California Press, 1996), pp.100-113.
- Yve-Alain Bois, "A Picturesque Stroll around Clara-Clara," *October* 29 (Summer 1984): 32-62.
- Robert Morris, "Notes on Art as/and Land Reclamation", in *October*, vol. 12 (Spring, 1980), pp. 87-102.
- Documentary Film: *Smithson and Serra: Beyond Modernism?* 24 minutes. <https://vimeo.com/28727127>
- David Wallis, "Survey", in *Land and Environmental Art*, Jeffrey Kastner and Brian Wallis, eds., (Phaidon, 1998), pp.18-43.

Thurs. 10/08 **Deadline:** You must have met with me to discuss your essay topic before Oct. 8

## **PART II: ECOLOGY**

### WEEK 6

### FROM CONSERVATION TO ENVIRONMENTALISM

- Tues. 10/11 • John Muir, *Nature Writings: Selected Essays* (Library of America, 1997), 810-817.
- Thurs. 10/13 • Aldo Leopold, "The Land Ethic," in *A Sand County Almanac: And Sketched Here and There* (Oxford U Press, 1949),
- William Cronon, "The Trouble with Wilderness; or, Getting Back to the Wrong Nature," in *Uncommon Ground: Rethinking the Human Place in Nature* (W.W. Norton, 1996), 69-90.
  - Rachel Carson, Ch. 1: "A Fable for Tomorrow," Ch. 2: "The Obligation to Endure," and Ch. 3 "Elixirs of Death," in *Silent Spring* (Houghton Mifflin, 1962), 1-37.
  - David Harvey, "What's Green and Makes the Environment Go Round?" in *The Cultures of Globalization*, ed. by Fredric Jameson (Duke U Press, 1998), 327-355.

### WEEK 7

### THE RISE OF ECOLOGICAL CONSCIOUSNESS

- Tues. 10/18 **Due:** Draft version of first 1000 words of your term paper to your writing fellow.
- Thurs. 10/20 • Richard Buckminster Fuller, "Spaceship Earth," in *Operating Manual for Spaceship Earth* (1968) (Lars Muller, 2008), 57-64.
- Peder Anker, "The Ecological Colonization of Space," in *From Bauhaus to Ecohouse: A History of Ecological Design* (Louisiana State U Press, 2010), 82-95.
  - Garrett Hardin, "The Tragedy of the Commons," *Science*, New Series, Vol. 162, No. 3859 (Dec. 13, 1968), 1243-1248.
  - Donald Worster, "Organic, Economic, and Chaotic Ecology," (1977) in *Major Problems in American Environmental History*, ed. by Caroline Constant (Wadsworth, 2012), 461-473.

### WEEK 8

### RADICAL AND DEEP ECOLOGIES

- Tues. 10/25 • James Lovelock and Sidney Epton, "The Quest for Gaia," *New Scientist* 65, no. 935 (Feb. 1975), 304-306.
- Thurs. 10/27
- Steve Chase, "Whither the Radical Ecology Movement?" in *Defending the Earth: A Debate Between Murray Bookchin and Dave Foreman* (Black Rose Books, 1991), 7-24.
  - Andrew Kirk, "Appropriating technology: The Whole Earth Catalog and counterculture environmental politics," *Environmental History* 6 (2001), 374-390.
  - Carolyn Merchant, "Deep Ecology," in *Radical Ecology: The Search for a Livable World* (Routledge, 2005), 91-107.



### **PART III: HYBRID LANDSCAPE**

#### WEEK 9

#### CONTEMPORARY ECOLOGIES

- Tues. 11/1
- William McDonough and Michael Braungart, "Waste equals Food," in *Cradle to Cradle: Remaking the Way We Make Things* (North Point Press, 2002), 92-117.
  - Bruno Latour, "Love your Monsters," *Breakthrough Journal 2* (Fall 2011), 21-28.
  - Timothy Morton, "Architecture without Nature," in Erik Genouiu, ed. "Not Nature," special issue, *Tarp Architecture Manual* (Spring 2012), 20-25.
  - Michael Shellenberger and Ted Nordhaus, "Evolve: The Case for Modernization as the Road to Salvation," *Breakthrough Journal 2* (Fall 2011), 13-20.

Thurs. 11/3 **Due:** Revised version of first 1000 words of your term paper to me.

#### WEEK 10

- Tues. 11/8 **No Classes: Election Day**
- Thurs. 11/10 **Guest Lecture:** Andreas M Benzing on Passive House Construction
- Sat. 11/12 **Field Trip:** Tour of a Passive House Project in NYC.

#### WEEK 11

#### URBANIZATION AND LANDSCAPE FUTURES

- Tues. 11/15
- Lewis Mumford, "The Natural History of Urbanization," in *Man's Role in Changing the Face of the Earth*, ed. Thomas (Chicago: University of Chicago Press, 1956).
  - Ian L. McHarg, "Nature in the Metropolis," in *Design with Nature* (Doubleday/Natural History Press, 1971), p.55-65.
  - James Corner, "Eidetic Operations and New Landscapes." In *Recovering Landscape: Essays in Contemporary Landscape Architecture* (Princeton Architectural Press, 1999), 153-169.
  - Charles Waldheim, "Landscape Urbanism: a Genealogy," *Praxis 4* (2002), 10-17.

Thurs. 11/17 **Due:** draft of complete version of the term paper submitted to your writing fellow

#### WEEK 12

- Tues. 11/22 **TBD**
- Thurs. 11/24 **No Classes - Thanksgiving Holiday**

#### WEEK 13

- Tues. 11/29 **TERM PAPER PRESENTATIONS**
- Thurs. 12/1 **TERM PAPER PRESENTATIONS**

#### WEEK 14

- Tues. 12/6 **TERM PAPER PRESENTATIONS**
- Thurs. 12/8 **TERM PAPER PRESENTATIONS**

Thurs. 12/15 **Due:** Final version of the term paper submitted to your instructor.

## **CASE STUDIES AND ADDITIONAL READINGS**

### **PART I: LANDSCAPE**

#### **THE INVENTION OF WILDERNESS**

CASE STUDIES: [ Buttes de Chaumont, Greenwood Cemetery, Central Park, Gertrude Jekyll, F.L. Olmsted ]

#### ADDITIONAL READING:

- Matthew Gandy, "Symbolic Order and the Urban Pastoral," in *Concrete and Clay: Reworking Nature in New York* (MIT Press, 2003), 87-109.
- Uvedale Price, excerpts from *Essays on the Picturesque, as Compared with the Sublime and the Beautiful*, Vol. I (J. Mawman, 1810), pp.21-29; 37-67; 68-86.
- William Gilpin, "Picturesque Beauty," in *Three Essays*, London: Blaimire, 1794, pp. 3-33.
- Ponte, Alessandra. "Public Parks in Great Britain and the United States: From a 'Spirit of the Place' to a 'Spirit of Civilization,'" in Monique Mosser and Georges Teyssot, eds., *The Architecture of Western Gardens*. Cambridge, MA: MIT Press, 1991, pp. 373-386.
- E. H. Gombrich, "The Renaissance Theory of Art and the Rise of Landscape," *Gombrich on the Renaissance: Volume 1: Norm and Form* (New York and London: Phaidon Press, 1985), pp. 107-121.
- Allen Weiss, *Mirrors of Infinity: the French formal Garden and Seventeenth Century Metaphysics*. New York; Princeton Architectural Press, 1995
- Ackerman, James S. "On Public Landscape Design Before the Civil War, 1830-1860," in Therese O'Malley and Marc Treib, eds., *Regional Garden Design in the United States*, Washington, D.C.: Dumbarton Oaks, 1995, pp. 191-207.
- Clarence J. Glacken, "Reflections of the History of Western Attitudes to Nature," *GeoJournal* 26, no. 2 (1992), 103-111.
- M.L. Pratt, "Alexander von Humboldt and the Reinvention of America," in *Imperial Eyes: Travel Writing and Transculturation* (Routledge, 1992).
- Georg Simmel, "The Philosophy of Landscape," *Theory Culture Society* 24, no. 20 (2007).
- Ulf Strohmayer, "Urban Design and Civic Spaces: Nature at the Parc des Buttes-Chaumont in Paris," *Cultural Geographies* 13 (2006), 557-576.
- Christine Macy and Sarah Bonnemaïson, *Architecture and Nature: Creating the American Landscape* (London ; New York: Routledge, 2003).
- Matthew Gandy, "Urban Nature and the Ecological Imaginary," in *In the Nature of Cities: Urban Political Ecology and the Politics of Urban Metabolism*, ed. Erik Swyngedouw, Nik Heynan, and Maria Kaïka. London: Routledge, 2006, 63-74.
- William Cronon, *Nature's Metropolis: Chicago and the Great West*. W. W. Norton & Company, 1992.
- Peter Batchelor, "The Origin of the Garden City concept of Urban Form," *JSAH* 28, no. 3 (Oct. 1969), 184-200.
- Vittoria Di Palma, "Fragmentation, Multiplication, Permutation: Natural Histories and Sylvan Aesthetics for Bacon to Evelyn," in Barry Bergdoll and Werner Oechslin, eds., *Fragments: Architecture and the Unfinished. Essays Presented to Robin Middleton* (New York: Thames & Hudson, 2006).
- Simon Schama, *Landscape and Memory* (Vintage Books, 1995).
- Max Oelschlaeger, "The Idea of Wilderness: From Paleolithic to Neolithic Culture", in *The Idea of Wilderness: From Prehistory to the Age of Ecology* (Yale University Press, 1991), pp.1-30.
- Kevin Bone, *Water-Works: The Architecture and Engineering of the New York City Water Supply* (The Monacelli Press, 2006).

#### **MODERN AND POSTMODERN LANDSCAPES**

CASE STUDIES: [ Le Corbusier, Luis Barragan, Burle Marx, Christopher Tunnard, Garret Eckbo, Daniel Urban Kiley, Lawrence Halprin, Bernard Tschumi, P. Eisenman / J. Derrida, R. Koolhaas ]

#### ADDITIONAL READINGS:

- Marc Treib, "Axioms for a Modern Landscape Architecture," in *Modern Landscape Architecture*, ed. Treib (Cambridge, MA: MIT Press, 1993), 36-67.
- Marc Treib, "From the Garden: Lawrence Halprin and the Modern Landscape," *Landscape Journal* 31, no. 1-2 (2012).
- Caroline Constant, "The Barcelona Pavilion as Landscape Architecture: Modernity and the Picturesque," in Caroline Constant, *Modern Architectural Landscape*, (U of Minnesota Press, 2012), 45-60.
- Caroline Constant, "From Virgilian Dream to Chandigarh: Le Corbusier and the Modern Landscape," in *Denatured Visions: Landscape and Culture in the Twentieth Century*, eds. Wrede and Adams (MoMA, 1991).

- Dorothée Imbert, "Unnatural Acts: Propositions for a New French Garden, 1920-1930," in *Architecture and Cubism*, ed. by Eve Blau and Nancy J. Troy (MIT Press, 1997), 141-166.
- Barry Bergdoll, "The Nature of Mies' Spaces," in *Mies in Berlin*, ed. by Terrence Riley and Barry Bergdoll (MoMA, 2002), 66-105.
- Cammie McAtee, "Alien #5044325: Mies' First Trip to America," in *Mies in America*, ed. by Phyllis Lambert (CCA, Whitney, Abrams, 2001), 132-191. (On the Resor House).
- Ethan Carr, *Mission 66: Modernism and the National Park Dilemma* (Amherst: University of Massachusetts Press, 2007).
- Richard Neutra, "Landscaping— A New Issue," in *Contemporary Landscape Architecture and its Sources*. Exhibition catalogue. San Francisco museum of art, February 12-March 22, 1937, 21-22.
- Henry-Russel Hitchcock Jr, "Gardens in Relation to Modern Architecture," in *Contemporary Landscape Architecture and its Sources*. Exhibition catalogue. San Francisco museum of art, February 12-March 22, 1937, 15-20.
- Georges Teyssot, "The American Lawn: Surface of Everyday Life," in *The American Lawn* (New York: Princeton University Press, 1999).
- Bernard Tschumi, *Cinégram folie, le Parc de la Villette* (Princeton, NJ: Princeton Architectural Press, 1987).
- Bernard Tschumi, "Parc De La Villette, Paris," *Architectural Design* (special issue: Deconstruction in Architecture) 58, no. 3/4 (1988): 32-39.

## TECHNOLOGY, TERRITORY AND POWER

CASE STUDIES: [ Yangtze River dam;

### ADDITIONAL READINGS

- Watch: DamNation. Directed by Ben Knight and Travil Rummel. USA, 2014.
- Paul R. Josephson, *Industrialized Nature: Brute Force Technology and the Transformation of the Natural World* (Island Press, 2002.).
- James Rodger Fleming, *Fixing the Sky: The Checkered History of Weather and Climate Control* (NY: Columbia University Press, 2010).
- Georges Teyssot, ed. *The American Lawn* (New York: Princeton University Press, 1999).
- David Nye, *American Technological Sublime*. Cambridge: MIT Press, 1992.
- Neeraj Bhatia and Mary Casper, eds., *The Petropolis of Tomorrow* (Actar, 2013).
- Edward Burtynsky, *Manufactured Landscapes: The Photographs of Edward Burtynsky* (Yale University Press, 2003).
- Kate Orff, *Petrochemical America* (Aperture, 2012).
- Reinhold Martin, "Territory: From the Inside, Out," in *Utopia's Ghost: Architecture and Postmodernism, Again* (Minneapolis: University of Minnesota Press, 2011), 1-26.
- Mike Hodson and Simon Marvin, Urbanism in the Anthropocene: Ecological Urbanism or Premium Ecological Enclaves? *City: analysis of urban trends, culture, theory, policy, action* 14, no. 10 (2010).
- Neil Smith, "The Ideology of Nature," in *Uneven Development: Nature, Capital, and the Production of Space* (Athens; London: University of Georgia Press, 2008), 10-48.
- Steven Vogel, "Horkheimer, Adorno, and the Dialectics of Enlightenment," in *Against Nature: The Concept of Nature in Critical Theory* (New York: SUNY Press, 1996), 51-69.
- Mike Davis, *City of Quartz: Excavating the Future in Los Angeles* (Vintage, 1992).

## LAND ART AND ENVIRONMENTAL SCULPTURE

CASE STUDIES: [ G. Kepes; R. Smithson; N. Holt; M. Heizer; W. De Maria; R. Serra; Christo and Jeanne Claude; R. Long; M. Lin; J. Turrell ]

### ADDITIONAL READINGS:

- Rosalind Krauss, "Sculpture in the Expanded Field," *October* 8 (Spring 1979), 30-44.
- Robert Smithson, "Frederick Law Olmsted and the Dialectical Landscape" (*Artforum* 11, 1973) in Robert Smithson, *The Collected Writings*, ed. Jack Flam (Berkeley: University of California Press, 1996), 157-171.
- James Nisbet, *Ecologies, environments, and energy systems in art of the 1960s and 1970s* (Cambridge, MA: MIT Press, 2014).
- John Beardsley, "Earthworks, the Landscape after Modernism," in *Denatured Visions: Landscape and Culture in the Twentieth Century*, eds. Wrede and Adams (New York: Museum of Modern Art, 1991).
- James Nisbet, *Ecologies, environments, and energy systems in art of the 1960s and 1970s* (Cambridge, MA: MIT Press, 2014).

- John Beardsley, *Earthworks and Beyond*. New York: Abbeville Press, 1998.
- Boettger, Suzaan. *Earthworks: Art and the Landscape of the Sixties*. Berkeley: University of California Press, 2002.
- Reyner Banham, "Marks on the Landscape," in *Scenes of America Deserta*. Cambridge, Mass.: MIT Press, 1989, 171-190.
- Udo Weilacher, "Introduction," in *Between Landscape Architecture and Land Art* (Birkhauser, 1996), pp.9-34
- Karen O'Rourke, *Walking and Mapping: Artists as Cartographers*. MIT Press, 2013.

## **PART II: ECOLOGY**

### **FROM CONSERVATION TO ENVIRONMENTALISM**

CASE STUDIES: [ National and State Parks, Love Canal,

#### **ADDITIONAL READINGS:**

- Rachel Carson, *Silent Spring* (Boston: Houghton Mifflin, 1962).
- Clarence J. Glacken, "Reflections on the History of Western Attitudes to Nature," *GeoJournal*. 26.2 (Feb. 1992), 103-111.
- David Kinkela, "The Ecological Landscapes of Jane Jacobs and Rachel Carson," *American Quarterly* 61, no. 4 (2009), 905-929.
- David Kinkela, "The Ecological Landscapes of Jane Jacobs and Rachel Carson," *American Quarterly* 61, no. 4 (2009), 905-929.
- Julie Sze, *Noxious New York: the Racial Politics of Urban Health and Environmental Justice* ( MIT Press, 2007).
- Peder Anker, *From Bauhaus to Ecohouse: A History of Ecological Design*, (Baton Rouge: Louisiana State University Press, 2010).
- Caroline Merchant, "The Era of Environmentalism, 1940-2000," in *The Columbia Guide to American Environmental History*, (New York: Columbia University Press, 2002).

### **THE RISE OF ECOLOGICAL CONSCIOUSNESS**

CASE STUDIES: [R.B. Fuller; John McHale; Reyner Banham; Stewart Brand, Biosphere 2, The Eden Project . . . ]

#### **ADDITIONAL READINGS:**

- Peder Anker, *From Bauhaus to Ecohouse: A History of Ecological Design*, (Baton Rouge: Louisiana State University Press, 2010).
- Anthony Vidler, "What Happened to Ecology? John McHale and the Bucky Fuller Revival," *Architectural Design* 80, no. 6 (2010), 24-33.
- David Gissen, "Corporate Atria and the Cultivation of Urban Nature," in *Manhattan Atmospheres* (U of Minnesota Press, 2104), 67-82.
- Jonathan Massey, "The Sumptuary Ecology of Buckminster Fuller's Designs," in *A Keener Perception: Ecocritical Studies in American Art History*, ed. Alan C. Braddock and Christoph Irmscher (University of Alabama Press, 2009).
- John McHale, "Man in the Biosphere," *The Ecological Context* (New York: George Braziller, 1970), 20-89. Note: Focus mostly on pp. 66-89.
- John McHale, "Outer Space," *The Future of the Future* (George Braziller, 1969), 175-195.
- Peter Sloterdijk, excerpt from "Introduction: The Allies; or, the Breathed Commune," in *Bubbles: Spheres, volume I: Microspherology* (Semiotext(e) / Foreign Agents, 2011), 17-28.
- Steve Parnell, "The Collision of Scarcity and Expendability in Architectural Culture of the 1960s and 1970s," *Architectural Design* 82, no. 4 (2012), 130-135.
- Richard Ingersoll, "The Ecology Question and Architecture," in *The SAGE handbook of Architectural Theory* (SAGE Publications, 2012),
- Caroline Merchant, "The Era of Environmentalism, 1940-2000," in *The Columbia Guide to American Environmental History*, (New York: Columbia University Press, 2002).
- Reyner Banham, "Environmental Management," in *The Architecture of the Well-Tempered Environment* (Chicago: University of Chicago Press, 1969),
- Richard Buckminster Fuller, "Accommodating Human Unsettlement," *The Town Planning Review* 49, no. 1 (Jan., 1978), 51-66.
- Megan Born, "Root Words: Introduction to Ecology, for the Evolution of Planning and Design," in *Dirt*, eds. Born, Furián, Jencks and Crosby (Philadelphia: PennDesign, 2012), 232-237.
- Reinhold Martin, "Environment, c.1973", in *Grey Room*, no. 14, Winter 2004 (MIT Press), pp.78- 101

## RADICAL AND DEEP ECOLOGIES

CASE STUDIES: [1970s off-the-grid eco-houses, contemporary eco-experiments, especially those that suggest a new social/political framework... ]

### ADDITIONAL READINGS:

- Arne Naess, "The Shallow and the Deep: Long-Range Ecology Movement. A Summary," *Inquiry* 16, no. 1 (1973), 95-100.
- John Bellamy Foster, "Capitalism and the Accumulation of Catastrophe," *Monthly Review* 63, no. 7 (Dec. 2011).
- David Harvey, "What's Green and Makes the Environment Go Round?" in *The Cultures of Globalization*, ed. by Fredric Jameson (Duke U Press, 1998), 327-355.
- Murray Bookchin, "What is Social Ecology?" in *Environmental Philosophy: From Animal Rights to Radical Ecology*, ed. by M.E. Zimmerman (Prentice Hall, 1993), 354-373.
- Peter Kropotkin, *Mutual Aid: A Factor in Evolution* (McClure Phillips, 1903).
- Arne Naess, "The Deep Ecological Movement: Some Philosophical Aspects," in *Philosophical Inquiry* 8, no. 1-2 (1983), 10-31.
- Murray Bookchin, Ch. 8 "Health and Society: Decentralization," in *Our Synthetic Environment* (NY: Harper & Row, 1962).
- Murray Bookchin and Dave Foreman, "Looking for Common Ground," in *Defending the Earth* (Boston: South End Press, 1991), 27-46.
- Francesco Manacorda and Ariella Yedgar, eds. *Radical Nature: Art and Architecture for a Changing Planet, 1969-2009* (Walther König, Köln, 2010).
- Giovanna Borasi and Mirko Zardini, eds., *Sorry, Out of Gas: Architecture's Response to the 1973 Oil Crisis* .
- George Henderson, "Marxist Political Economy and the Environment," in *A Companion to Environmental Geography*, eds. Castree, Demeritt, Liverman and Rhoads (Wiley-Blackwell, 1999).
- Phillip James Tabb, *The Greening of Architecture: A Critical History and Survey of Contemporary Sustainable Architecture and Urban Design* (Farnham, Surrey: Ashgate Publishing Limited, 2013).
- Stewart Brand, *Whole Earth Catalog*, published between 1968 and 1972.
- Felicity D. Scott, "Revolutionaries or Dropouts," in *Architecture or Techno-Utopia* (MIT Press, 2010), 151-184.
- Bernard Rudofsky, *Architecture without architects* (New York: Museum of Modern Art, 1964).
- Lloyd Kahn, *Shelter I* (1973) and *Shelter II* (1978).
- Lloyd Kahn, *Domebook I* (1970), *Domebook II* (1971).
- Michael E. Reynolds, *Earthship* (Taos, N.M.: Solar Survival Architecture, 1990).
- Lane De Moll, *Rainbook: Resources for Appropriate Technology* (New York: Schocken Books, 1977).
- Peter Harper, "The Autonomous Houses," *Architectural Design* 46:1 (Feb 1976): 2-93.
- Jay Baldwin and Stewart Brand, *Soft-Tech* (New York: Penguin Books, 1978).

## PART III: HYBRID LANDSCAPES

### CONTEMPORARY ECOLOGIES

CASE STUDIES: [ MVRDV, Pig City; B. Ingels; P. Rahm; Terreform One . . . ]

### ADDITIONAL READINGS:

- Paul Crutzen, "Geology of Mankind," *Nature* 415 (3 January 2002), 23.
- Francesco Manacorda and Ariella Yedgar, eds. *Radical Nature: Art and Architecture for a Changing Planet, 1969-2009* (Walther König, Köln, 2010).
- Bruce Braun, "Towards a New Earth and a New Humanity: Nature, Ontology, Politics," in *David Harvey: A Critical Reader* (Wiley-Blackwell Publishing Ltd., 2006), 191-222.
- Bruno Latour, "The End of Nature," in *Politics of Nature: How to Bring the Sciences into Democracy*, C. Porter, trans. (Harvard U Press, 2004), 25-31.
- Geoff Manaugh, *Landscape Futures: Instruments, Devices and Architectural Inventions* (Actar, 2013).
- Chris Reed & Nina-Marie Lister, eds., *Projective Ecologies* (Cambridge, MA; Harvard University Graduate School of Design; NY: Actar Publishers, 2014).
- David Gissen, *Subnature: Architecture's Other Environments* (New York : Princeton Architectural Press, 2009).
- Gilles Clément, Philippe Rahm, *Environment: Approaches for Tomorrow*, edited by Giovanna Borasi (Milano : Skira ; Montréal : CCA, 2006).
- Paola Antonelli, William Myers, eds. *Bio Design: Nature. Science. Creativity* (Thames & Hudson, 2012).
- Lisa Tilder, Beth Blostein, Jane Amidon, eds. *Design Ecologies: Sustainable Potentials in Architecture* (Princeton Architectural Press, 2009).
- Félix Guattari, "The Three Ecologies," *New Formations* 8 (1989): 131-47.

- Timothy Morton, "Toward a Theory of Ecological Criticism," in *Ecology without Nature: Rethinking Environmental Aesthetics* (Cambridge, MA.: Harvard University Press, 2007), 1-28.
- Bruce Braun, "Towards a New Earth and a New Humanity: Nature, Ontology, Politics," in *David Harvey: A Critical Reader*, edited by Noel Castree and Derek Gregory (Oxford, UK: Wiley-Blackwell Publishing Ltd., 2006), 191-222.
- Bruno Latour, "The End of Nature," in *Politics of Nature: How to Bring the Sciences into Democracy*, C. Porter, trans. (Cambridge: Harvard University Press, 2004), 25-31.
- Allenby Braden, "Complexity- the New Frontier," in *Reconstruction Earth: Technology and the Environment in an Age of Humans*
- N. Katherine Hayles, "Simulated Nature and Natural Simulations: Rethinking the Relation between the Beholder and the World," in *Uncommon Ground- Rethinking the Human Place in Nature*
- John Bellamy Foster, "Marx's ecology in historical perspective," *International Socialism Journal 96* (Winter 2002).

## URBANIZATION AND LANDSCAPE FUTURES

CASE STUDIES: [ Ian McHarg, Robert Irwin, Field Operations and Diller and Scofidio, the High Line; Downsview Park Competition; Fresh Kills Competition; Weiss/Manfredi]

### ADDITIONAL READINGS:

- Ian L. McHarg, *Design with Nature* (Doubleday / Natural History Press, 1971).
- Ian Douglas, "Urban Sustainability: Cities for Future Generations," in *Cities: An Environmental History* (Palgrave Macmillan, 2012), 289-304.
- Ian Douglas, "Foods, Goods, Materials and Ornaments: The Metabolism of Cities," in *Cities: An Environmental History* (Palgrave Macmillan, 2012), 46-66.
- Mathew Gandy, "Urban Nature and the Ecological Imaginary," in *In the Nature of Cities: Urban Political Ecology and the Politics of Urban Metabolism* (Routledge, 2006), 62-71.
- Alan Berger, "Drosscape," *The Landscape Urbanism Reader* (Princeton Architectural Press, 2006): 197-217.
- Frederick Steiner, "Healing the Earth: the Relevance of Ian McHarg's Work for the Future," *Philosophy & Geography* Feb. 2004: 141-149.
- James Corner, "Representation and Landscape," in *Theory in Landscape Architecture: a Reader*, ed. Swaffield (Philadelphia: University of Pennsylvania Press, 2002 (orig. 1992)).
- Stan Allen, "From the Biological to the Geological," in *Landform Building: Architecture's New Terrain*, eds. Allen and McQuade (Baden: Lars Müller, 2011), 20-31.
- Anita Berrizbeitia, "Scales of Undecidability," in *CASE: Downsview Park Toronto*, Julia Czerniak, ed. Prestel Publishing, 2002, 117-125.
- Deborah Gans and Claire Weisz, *Extreme Sites: The 'Greening' of Brownfield*. Academy Press, 2004.
- Charles Waldheim, ed., *The Landscape Urbanism Reader* (NY: Princeton Architectural Press, 2006).
- Mohsen Mostafavi with Gareth Doherty, eds. *Ecological Urbanism* (Baden, Switzerland : Lars Müller, c2010). HT241 .E374 2010.
- Mathew Gandy, *Recycling and the Politics of Urban Waste*. Palgrave Macmillan, 1994.
- Kate Orff, *Petrochemical America*, (Aperture, 2012).
- Julia Czerniak, *Formerly Urban: Projecting Rustbelt Futures* (Princeton Architectural Press, 2013).
- Neeraj Bhatia and Mary Casper, eds., *The Petropolis of Tomorrow* (Actar, 2013).
- Mathew Gandy, "Rustbelt Ecology," in *Concrete and Clay: Reworking Nature in New York City*. MIT Press, 2003. 187-229.
- Julia Czerniak ed., *Formerly urban: projecting Rust Belt futures* (Princeton Architectural Press, 2013).
- Stan Allen and Marc McQuade, *Landform Building: Architecture's New Terrain* (Lars Muller, 2011).
- Mason White, Lola Sheppard, Neeraj Bhatia, *Pamphlet Architecture 30: Coupling: Strategies for Infrastructural Opportunism* (2011).
- Mark Titman, ed. *The New Pastoralism: Landscape into Architecture AD* (Architectural Design, May 2013).