

SPRING 2015
College of Architecture
Georgia Institute of Technology
ARCH 4320: RETROFITTING SUBURBIA

instructor: Ellen Dunham-Jones, edj@gatech.edu,
Arch West 355, 404 894 0648, office hours by appt.
time: T, 6:05-8:55pm, Rm 207 Architecture East
credits: 3

description: This course examines the retrofitting of dead malls, dying office parks, aging subdivisions, decaying commercial strip corridors, etc., into more sustainable places that can help communities address 21st Century challenges. Students will learn to think creatively about how to reinhabit, redevelop, and regreen these underperforming properties. Readings and discussions will focus on the forces driving retrofitting, redevelopment processes, the urban design techniques employed in built case studies and hypothetical proposals, and new measures and tools for advancing sustainable urban design at the building, neighborhood and metropolitan scale. The majority of classtime will be devoted to discussion of readings and presentation of individual research projects.

learning objectives: In addition to gaining knowledge about suburban redevelopment history, processes, case studies, and design strategies at multiple scales, students will develop the ability to:

- Critically evaluate various measures of success in suburban retrofits
 - Participate in multi-disciplinary discussions regarding contemporary development patterns
 - Inter-relate strategies at the scale of the building, the street, the neighborhood, and the region

requirements: Grading for ARCH 4320 will be based upon participation in class discussions (30%), weekly reading and question synopses (30%), panel moderation(10%) and final presentation & paper (35%).

accommodations: Students with disabilities requiring accommodations must obtain an accommodations letter from the ADAPTS Office [www.adapts.gatech.edu] to ensure appropriate arrangements.

honor code: This course is to be conducted according to Georgia Tech's Academic Honor Code, please see [http://www.catalog.gatech.edu/rules_regulations/#18].

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Schedule

<i>Jan 6</i>	Overview: Retrofitting Suburbia
<i>Jan 13</i>	Historical and Contemporary Context
<i>Jan 20</i>	Demographic Changes and Residential Retrofits
<i>Jan 27</i>	Automobile Dependence and Commercial Strip Retrofits
<i>Feb 3</i>	Malls, Main Streets, and Town Centers
<i>Feb 10</i>	Retrofitting Edge Cities, Office Parks, Finance and Work
<i>Feb 17</i>	Retrofitting in Atlanta: Public Sector
<i>Feb 24</i>	Reinhabitation and Tactical Urbanism
<i>Mar 3</i>	Regreening and Social Equity
<i>Mar 10</i>	Retrofitting at the Metro-Scale, Research Updates
<i>Mar 17</i>	<i>Spring Break</i>
<i>Mar 24</i>	Next Generation Retrofits
<i>Mar 31</i>	Retrofitting Atlanta: Private Sector
<i>Apr 7</i>	Student Presentations
<i>Apr 14, 16?</i>	Student Presentations
<i>Apr 21</i>	Architecture Final Reviews: No Class
<i>April 30</i>	Final Paper Due

Readings *Retrofitting Suburbia* (John Wiley & Sons, paperback edition 2011) is the course's principal textbook. It will be read in full and while a copy will be placed on reserve in the library, it is recommended that students purchase their own copy. Additional readings will either be on reserve in the library and marked with an (L) or available as pdfs in T-Square (T) or available online. Optional readings are so indicated.

Assignments 1. *Reading Summaries:* Each student is responsible for doing the required reading for each week and submitting a 1-1.5-page synopsis to T-Square no later than 3:00 of the day of class. This is to assist students in reflecting upon the readings and being prepared for the class discussion. The reading summaries are an important part of the grade and students should make every attempt not to fall behind. A good reading summary does not simply report on what the author(s) said. Rather, it synthesizes the reader's understanding of the significance of what the author(s) said. It's okay to admit parts of the author's argument that you either did not follow or disagree with. The best reading summaries will compare and contrast the arguments of the different authors in relation to the overall theme of the week.

The summaries are to follow a precise format:

1. Compose 1-2 questions formed while reflecting on the reading and that you would like to raise in class. Be prepared to ask and discuss your questions (even though we may not get to everyone's questions every week.)
2. Write one paragraph summarizing the overall subject of the week's reading(s). Where there are multiple authors, distinguish between their different points of view. If you are particularly inspired, you may add additional paragraphs, but one good, tight paragraph is preferred to 2-3 paragraphs of rambling observations. The overall summary should not exceed two pages.
3. Write a paragraph on what qualities the author either implicitly or explicitly is using as his/her measure of success. For instance, are they principally concerned with optimizing revenue, social equity, environmental performance...? Do all of the authors for this week share the same values? Are they all evaluating success by the same measures?
4. Write a concluding paragraph that offers your opinion of the most interesting aspect of the reading(s). This might be an inspiring detail or an attitude you find disturbing. This is the paragraph where you offer your opinion.
5. List bullet points of key concepts from each reading

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Note – I read the Wikipedia entries on these authors too. Do not plagiarize discussion from others. There is no need to read any material other than the assigned reading. However if you do wish to reference other authors, cite them appropriately.

In addition, each week students should prepare for the in-class discussions by reviewing the italicized questions on the syllabus.

Attendance in class is mandatory and students should contact the instructor before class in the case of an excused absence. Students with an excused or unexcused absence from class will be required to prepare an essay or presentation related to the missed discussion. More than one unexcused absence will result in an automatic letter grade reduction.

2. *Research Paper:* Each student is to produce a research paper on an assigned suburban retrofit. Collectively, the research projects will document, define, and measure success in retrofitting suburbia. Students will give periodic updates on their research before presenting their findings in a 15-minute powerpoint that is to then to be submitted as an illustrated, written term paper.

3. *Panel Moderation:* The course includes two "in the trenches" sessions with professionals from the public and private sectors who are working in Atlanta on retrofitting suburbia. Graduate students will be assigned one of these speakers to work with. This consists of calling them ahead of the panel to discuss their role in retrofitting suburbia, their take on "what students need to know," and offer suggestions on what their 10-minute presentation should focus on. The grad students working on each panel should collaborate on organizing the presentations and key questions for that evening and moderate the presentations and discussion.

Course Schedule

Jan 6 Overview: Retrofitting Suburbia
Discuss syllabus, research project. EDJ overview lecture: Retrofitting Suburbia for 21st Century Challenges

Jan 13 Historical and Contemporary Context
Discussion of: history of suburbanization; urbanism's impacts on public health; defense of "sprawl" and resistance to "sustainable development." Selection of topics for research projects.

- (T) June Williamson, "Context for Change", *Designing Suburban Futures, New Models From Build a Better Burb*, p.2-23 (Island Press, 2013)
- (T) Howard Frumkin et al., *Urban Sprawl and Public Health*, (2004.) - the preface, pp.xi-xvii, overview pp.22-25 and chapter 2, pp.26-43, "The Origins of Sprawl."
- (T) Charles Marohn, *Curbside Chat Companion Booklet*. (Strongtowns.org) Focus on pages 4-6, 16-27. Alternatively, you can listen to a 32-minute podcast. <http://shoutengine.com/StrongTownsPodcast/the-growth-ponzi-scheme-4762>
- (T) Robert Bruegmann, "In Defense of Sprawl," *Forbes*, 6/11/2007
- *Retrofitting Suburbia* – pp.iii-14, the Color Portfolio, p.230-233.

OPTIONAL: Measuring Sprawl 2014, report by Smart Growth America, online: <http://www.smartgrowthamerica.org/documents/measuring-sprawl-2014.pdf>

OPTIONAL: "What is Agenda 21?" http://www.teaparty911.com/issues/what_is_agenda_21.htm

OPTIONAL: Robert Bruegman, *Sprawl, A Compact History* (U Chicago Press, 2005). Historical arguments in favor of decentralized development.

OPTIONAL: Kevin Kruse, Thomas Sugrue, *The New Suburban History*, (U. Chicago, 2006)

OPTIONAL: Andrew Dannenberg, Richard Jackson, Howard Frumkin, *Making Healthy Places: Designing and Building for Health, Well-being, and Sustainability* (2011)

OPTIONAL: Kenneth Jackson, *Crabgrass Frontier*

OPTIONAL: Robert Fishman, *Bourgeois Utopia*

Jan 20 Demographic Changes and Residential Retrofits.
Discussion of: residential retrofits; suburban markets and changing demographics, gentrification and impact on downtowns. EDJ lecture on new residential retrofits.

- *Retrofitting Suburbia* – pp.16-58
- (T) Reihan Salam, "How the Suburbs Got Poor", *Slate*, Sept 4, 2014, online: http://www.slate.com/articles/news_and_politics/politics/2014/09/poverty_in_the_suburbs_places_that_thrived_in_the_era_of_two_parent_families.single.html
- (T) "Future of Suburbs" – read Jill Grant's introduction p.3-4 and Arthur C. Nelson's "The Resettlement of America's Suburbs", focusing on p. 9-14. OPTIONAL read the responses to this article. All are part of a special issue of *Planning Theory & Practice*, v.14, No. 3, 2013 Online at <http://www.tandfonline.com/doi/pdf/10.1080/14649357.2013.808833>

(OPTIONAL: Arthur C. Nelson, *Reshaping Metropolitan America* (Island Press, 2013)

OPTIONAL: Christopher Leinberger, "The Next Slum?" *The Atlantic*, March 2008 and online at: <http://www.cleinberger.com/AdminHome.asp?ArticleID=205> (scroll down the list)

OPTIONAL: Sean F. Reardon, Kendra Bischoff, "Growth in the Residential Segregation of Families by Income, 1970-2009", (Russell Sage Foundation, November 2011)

OPTIONAL: "The Suburban Poor: An Interview with Elizabeth Kneebone and Scott Allard." www.prx.org/pieces/54573-the-suburban-poor-an-interview-with-elizabeth-kne

OPTIONAL: Kevin DeGood, "Aging in Place, Stuck without Options: Fixing the Mobility Crisis Threatening the Baby Boom Generation", (Transportation for America, 2011) <http://t4america.org/resources/seniorsmobilitycrisis2011>.

OPTIONAL: Kathryn Lawler, "Lifelong Communities: How Can We Age in Place?" Jonathan Lerner ed., Building Metropolitan Atlanta: Past, Present & Future (Congress for the New Urbanism 18, 2010), pp.33-35.

OPTIONAL: Emily Talen, "Affordability in New Urbanist Development: Principle, Practice and Strategy," *Journal of Urban Affairs*, vol 32, #4, (2010)

OPTIONAL: Center for Housing Policy, "A Heavy Load: The Combined Housing and Transportation Burdens of Working Families" (2006)

OPTIONAL: S. Mitra Kalita and Robbie Whelan, "No McMansions for Millennials," *The Wall Street Journal*, January 13, 2011

OPTIONAL: Amanda Kolson Hurley, "Skyscrapers in the Subdivision," *Next City*, May 2014, online: <http://nextcity.org/features/view/suburbs-are-not-dead-the-future-of-retrofitted-suburbia>

OPTIONAL: Michael Brill, "Mistaking Community Life for Public Life," *Places* 14 (2), 11/2001, available online at:

http://places.designobserver.com/media/pdf/Mistaking_Comm_327.pdf

OPTIONAL: Sabrina Tavernise and Robert Gebeloff, "Immigrants Make Paths to Suburbia, Not Cities," *The New York Times*, December 14, 2010

Jan 27

Automobile Dependence and Commercial Strip Retrofits.

Discussion of the health, social, and cost impacts of auto-dependence; location efficiency; street networks, and retrofits of big boxes and strip malls, .

- *Retrofitting Suburbia* – pp. 59-107
 - Visit the <http://htaindex.cnt.org/> and read up on the Housing Plus Transportation Affordability Index. Click on a metro you know well and look at the maps for housing at 30% of hh income vs housing plus transportation at 45%, (this is the default.) Then, next to the title "Housing + Transportation Costs..." click on the downfacing arrow in the go small blue and look at several other comparisons: your metro's typical household vs national household on CO2 emissions, average block size, residential density, transportation costs in 2000 vs 2008, etc. Zoom in and out to look at your specific neighborhood.
 - (T) Jonathan Rose Companies, "Location Efficiency and Housing Type: Boiling it Down to BTUs," (EPA, 2011) online at: http://www.epa.gov/smartgrowth/pdf/location_efficiency_BTU.pdf

OPTIONAL: Eric Dumbaugh, Jeffrey Tumlin, Wesley Marshall, "Decisions, Values, and Data: Understanding Bias in Transportation Performance Measures" *ITE Journal*, August 2014 online:

<http://www.ite.org/membersonly/itejournal/pdf/2014/JB14HA20.pdf?pass=77>

OPTIONAL: (T) Jeffrey Tumlin, "Measuring Success," *Sustainable Transportation Planning* (Wiley, 2012)

OPTIONAL: Galina Tachieva, "Commercial Strip," *The Sprawl Repair Manual* (2010)

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OPTIONAL: 2012 EPA Smart Growth Project of the year: retrofit of an arterial back into Lancaster CA's Main Street: <http://sdapa.org/go/lancaster-showcases-model-living-street/> and the project's economic performance:

<http://www.theatlanticcities.com/design/2013/01/case-walkability-economic-development-tool/4317/>

OPTIONAL: Donald C. Shoup, *The High Cost of Free Parking*, (American Planning Association, 2005)

OPTIONAL: Todd Litman "Evaluation Public Transportation Health Benefits," Victoria Transport Policy Institute, (2010)

OPTIONAL: Michael Freedman, "Restructuring the Strip," *Places*, 17(2), summer 2005, online:

<http://places.designobserver.com/media/pdf/Restructuring>

392.pdf

OPTIONAL: Reid Ewing, Robert Cervero, "Travel and the Built Environment; A Meta-Analysis" *Journal of the American Planning Association*, May 11, 2010, online:

<http://reconnectingamerica.org/assets/Uploads/travelbuiltenvironment20100511.pdf>

OPTIONAL: *Shifting Suburbs: Reinventing Infrastructure for Compact Development*, Urban Land Institute, 2012, online: <http://www.uli.org/wp-content/uploads/ULI-Documents/Shifting-Suburbs.pdf>

OPTIONAL: LEED ND Report on Public Health and the Built Environment by Community Design & Environment, Reid Ewing, Lawrence Frank.

Download at <http://www.cnu.org/node/559>

Feb 3

Malls, Main Streets and "Town Centers"

Discussion of: mall retrofits; consumerism's place in civic life; EDJ lecture on new mall retrofits. Research project progress. **Students should be prepared to report briefly on the sources they have found for their research project and what particular aspects they are considering to use as their "measure of success"**

- *Retrofitting Suburbia* – pp.108-171
 - (T) Mark Robbins "Redressing the Mall" and Robert Fishman "Towards an Open Minded Space" in David Smiley ed., *Sprawl and Public Spaces: Redressing the Mall* (National Endowment for the Arts, 2002) pp. 3-12.
- (T) Galina Tachieva, "Shopping Mall," *The Sprawl Repair Manual* (2010) pp129-149. (Note the hypothetical example illustrated is the Gwinnett Mall.)

OPTIONAL: Robert Gibbs, *Principles of Urban Retail Planning and Development* (Wiley, 2012). Chapters 6 and 7, "Shopping Center Built-Form Types" and "Planning and Urban Design" are particularly recommended.

OPTIONAL: CNU's Greyfield Mall Study (three parts all of which can be downloaded from www.cnu.org/malls): *Greyfield Regional Mall Study* (2001), *Greyfields Into Goldfields: Dead Malls Become Living Neighborhoods* (2002), and *Malls Into Mainstreets* (2005)

OPTIONAL: Michael Sorkin ed, *Variations on a Theme Park: The New American City and the End of Public Space* (Hill and Wang, 1992)

OPTIONAL: M. Jeffrey Hardwick, *Mall Maker: Victor Gruen, Architect of an American Dream*, (U Pennsylvania, 2003)

OPTIONAL: ULI Advisory Services Panel Report, "Strategies for Transforming and Reinventing the Southwest Center Mall, Dallas, Texas"

<http://www.uli.org/wp-content/uploads/ULI-Documents/SW-Mall-Dallas-TX.pdf>

OPTIONAL: (T) Greg Leroy "TIF, Greenfields, and Sprawl: How an Incentive Created to Alleviate Slums Has Gone to Subsidize Upscale Malls and New Urbanist Developments" (2008)

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Feb 10

Retrofitting edge cities, office parks and the world of work

Discussion of edge city, office and industrial park retrofits; changing means of work; the spatial separation of home and work; the Creative Class; centralization vs decentralization and the courting of entrepreneurs

- *Retrofitting Suburbia* – pp.172-229
 - Bruce Katz "Big Idea 2014: Goodbye Silicon Valley Hello Silicon Cities," <http://www.linkedin.com/today/post/article/20131210130702-178891608-big-idea-2014-goodbye-silicon-valley-hello-silicon-cities>. Watch short video embedded in the article too. Optional: to find out more about Atlanta's Midtown Innovation District go to: <http://www.midtownatl.com/business/innovation-happens-here>
- (T) Barbara Byron, "Transforming Tysons," Office of Community Revitalization, Fairfax County, VA, September 16, 2014
 - Alex Wilson and Rachel Navarro, "Driving to Green Buildings: The Transportation Energy Intensity of Buildings", *Environmental Building News*, September 2007, online at: <http://www.buildinggreen.com/auth/article.cfm/2007/8/30/Driving-to-Green-Buildings-The-Transportation-Energy-Intensity-of-Buildings/>

OPTIONAL: Rick Hall, "Planning for Walkable Streets," in *New Urbanism and Beyond*, Tigran Hass, ed., (Rizzoli, 2008), pp. 153-157. This book is a useful anthology and worth getting familiar with.

OPTIONAL: Joel Garreau, *Edge City: Life on the New Frontier*, (1991)

OPTIONAL: Cervero R., Komada Y., Krueger A., "Suburban Transformations: From Employment Centers to Mixed-Use Activity Centers," University of California Transportation Center, Working Paper, UCTC-FR-2010-13. Online at:

<http://www.escholarship.org/uc/item/9h8387sz?display=all#page-1>.

OPTIONAL: Christopher Leinberger, "The Need for Alternatives to the Nineteen Standard Real Estate Product Types," *Places* 17(2) and online: http://places.designobserver.com/media/pdf/Creating_Alter_806.pdf

OPTIONAL: Chapters 13, 14, and 15 (p.245-276) in *Redevelopment Planning, Law, and Project Implementation*, ed by Brian W. Blaessner & Thomas P. Cody (2008). This book is on reserve.

OPTIONAL: Robert Lang, Thomas Sanchez, and Jennifer LeFurgy, "Beyond Edgeless Cities: Office Geography in the New Metropolis" (National Association of Realtors, 2006), online at:

<http://www.realtor.org/wps/wcm/connect/4850700048be3790b426fe0c8bc1f2ed/LangEdgelesses.pdf?MOD=AJPERES&CACHEID=4850700048be3790b426fe0c8bc1f2ed>

OPTIONAL: Louise Mazingo, *Pastoral Capitalism: A History of Suburban Corporate Landscapes* (2011)

Feb 17

Retrofitting in Atlanta – Public Sector Tales From the Trenches

Student-moderated presentations and discussion of the public sector's role in retrofitting Atlanta.

- Michael Dobbins, "Focusing Growth Amid Sprawl: Atlanta's Livable Centers Initiative," *Places* 17.2, 2005, online:

- http://places.designobserver.com/media/pdf/Focusing_Growth_807.pdf

- Visit the Atlanta Regional Commission's website to see how the LCI program has grown since Professor Dobbins' 2005 article: <http://www.atlantaregional.com/land-use/livable-centers-initiative>

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- Baruch Feigenbaum, "Livable Centers Initiative Program Needs to be Refocused," Reason Foundation website, April 6, 2012, online: <http://reason.org/news/show/livable-centers-initiative-program>

- There are 13 CIDs (Community Improvement Districts) in Metro Atlanta, all actively engaged in redevelopment. Peruse the websites of the Midtown Alliance, Perimeter CID, Cumberland CID, and at least one more to learn more about the kinds of projects they engage in and the role they play.

- Mark Peterson, "Riding the No. 10 Bus in Atlanta," *Politico Magazine*, 2013, online: <http://www.politico.com/magazine/gallery/2014/05/riding-the-no-10-bus-in-atlanta/001814-025941.html#.VKxc2N54qxl>

Feb 24

Re-inhabitation and Tactical Urbanism

EDJ lecture on reinhabitation and tactical urbanism. Discussion of case studies and strategies for re-inhabiting, adaptive re-use, and restoration of suburban properties. Discussion of Tactical Urbanist short term actions for long-term change as well as larger movements related to relocalization, resilience, and DIY and Guerrilla urbanism.

- watch the 1-hour lecture by Donovan Rypkema, "Historic Preservation as Sustainable Development" at

- <http://smartech.gatech.edu/handle/1853/33334>

- Street Plans, *Tactical Urbanism*, vol 2. Read online at:

- http://issuu.com/streetplanscollaborative/docs/tactical_urbanism_vol_2_final

- Rachel Botman "Collaborative Consumption," video at: http://www.ted.com/talks/rachel_botsman_the_case_for_collaborative_consumption.html

- Peter Elmlund and Charles C. Bohl, "Places of Ethnic Commerce Across the Transect," *Places* 18.1, 2006 and online at:

- http://www.designobserver.com/media/pdf/Places_of_Ethn_930.pdf

OPTIONAL: Kirk Johnson, "A Town Envisions the Future on its Own Terms," *The New York Times*, November 17, 2011. Fort Collins.

OPTIONAL: Greg Hanscom, "The next small thing: How sustainable neighborhoods could reshape cities," *Grist*, Nov 29, 2011.
 OPTIONAL: Eran Ben-Joseph, *Rethinking A Lot: The Design and Culture of Parking* (MIT Press, 2012)
 OPTIONAL: Jeffrey Hou, "Insurgent Public Space: Guerrilla Urbanism and the Remaking of Contemporary Cities" (2010)
 OPTIONAL: Mimi Zeiger, "The Interventionist's Toolkit" a four-part series in *Places Journal*, online at: <http://places.designobserver.com/feature/the-interventionists-toolkit-part-3/29908/>

Mar 3

Regreening and Social Equity Strategies: Research Update 1.

EDJ lecture on regreening. Discussion of climate change & resilience, reconstructed natural systems, green infrastructure, eco-system services, suburban ecology as well as district energy and waste systems.

- (T) Laurence Aurbach, "Dense and Beautiful Stormwater Management", blogpost at Ped Shed and online at: <http://pedshed.net/?p=270>
- Andrew Metcalf, "Bethesda Downtown Plan Concepts Include Increased Density, Parks Network," *Bethesda Magazine*, 12/08/14, online: <http://www.bethesdamagazine.com/Bethesda-Beat/2014/Bethesda-Downtown-Plan-Concepts-Include-Increased-Density-Parks-Network/>
- Parkmerced, San Francisco. Look at the SOM plans (including the image gallery) online at <https://www.som.com/project/parkmerced-vision-plan> then read "The Parkmerced Controversy" at <http://sfciviccenter.blogspot.com/2011/05/parkmerced-controversy.html>

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- (T) Marcy Rein, "Lawsuit Breaks Suburban Affordable Housing Limits – Challenges Affluent Sprawl," *Race, Poverty & the Environment*, vol 18, no. 2, 2011.

OPTIONAL: Peter Calthorpe, *Urbanism in the Age of Climate Change*
 OPTIONAL: From Red Fields to Green Fields. View the slides explaining the idea on the homepage at: <http://www.redfieldstogreenfields.org/>.
 OPTIONAL: Timothy Beatley, *Biophilic Cities*
 OPTIONAL: "Green City, Clean Waters; The City of Philadelphia's Program for Combined Sewer Overflow". The pdf is available at "resources" in T-Square.
 OPTIONAL: Alexandros Washburn, *The Nature of Urban Design: A New York Perspective on Resilience* (2013)

Mar 10

Retrofitting at the Metro-Scale: Research Updates 1

EDJ lecture on metro-scale retrofitting. Discussion of incremental metropolitanism, regional strategies, retrofits of existing suburban town centers, and corridor retrofits. **Students should be prepared to show short presentations showing research documentation and preliminary analytical findings**

- James W. Hughes, Joseph J. Seneca "Reinventing the New Jersey Economy: New Metropolitan and Regional Employment Dynamics," Rutgers Regional Report, Issue Paper 33, Dec 2012, online: <http://policy.rutgers.edu/reports/rrr/RRR33dec12.pdf>
- (T,L) Galina Tachieva's *Sprawl Repair Manual*, (Island Press, 2010), "The Sprawl Repair Method", "Repair at the Regional Scale" (pp.17-53)
 - Eugene Meyer, "The Future is Looking Up", *Bethesda Magazine*, March- April 2012, online at: <http://www.bethesdamagazine.com/Bethesda-Magazine/March-April-2012/The-Future-is-Looking-Up/>
 - Long Island Index, "The Clock is Ticking" video online at: <http://www.longislandindex.org/The-Clock-is-Ticking.715.0.html>. Explore the Long Island Index itself – an incredibly rich greyfield audit.
 - Brenda Scheer, "The Anatomy of Sprawl," *Places* 14(2), 11/2001, available online at: http://places.designobserver.com/media/pdf/The_Anatomy_of_330.pdf

OPTIONAL: Christopher Leinberger, Mariela Alfonso, *The DC Walk UPS Wake-Up Call*, online at: <http://business.gwu.edu/walkup/>
OPTIONAL: Nathaniel M. Hood, "The Impending Decline of Second-Ring Suburbs," Nov 8, 2014, StreetsMN online: <http://streets.mn/2014/11/08/the-impending-decline-of-second-ring-suburbs/>

Mar 17 Spring Break

Mar 24

Next generation retrofits: Research Update 2

Discussion of post-recession retrofit strategies; retrofits in areas of stagnant population growth; incremental vs instant urbanism; district energy systems; advanced tools and challenges; cultural acceptance of a new American Dream?; the international market for retrofitting **Students should be prepared to show short presentations showing research documentation and preliminary analytical findings**

- (T) David R Millard, "The Mosaic District: Urban Village Grows From Suburban Wasteland," *NAIOP Commercial Real Estate Development Magazine*, Fall 2013.

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- (T) Hillary Brown, Chapters 1 and 2, "Introduction: Bold Endeavors Needed" and "Toward Infrastructural Ecologies: Interconnected, Multipurpose, and Synergistic Systems" from *Next Generation Infrastructure: Principles for Post-industrial Public Works* (2014)
- Review each of the projects commissioned and displayed at the NYC Museum of Modern Art's exhibition "Foreclosed: Rehousing the American Dream" online at <http://www.moma.org/interactives/exhibitions/2012/foreclosed/>
- (T) Eric Jaffe "The 4 Transportation Systems You'll Meet in the Future," Citylab, Sept 29, 2014, online: <http://www.citylab.com/commute/2014/09/the-four-transportation-systems-youll-meet-in-the-future/380904/>
- OPTIONAL: Daniel Solomon, "Making Cloth From Threads" (2009)
 - OPTIONAL: Build a Better Burb Design Competition. Review the competition and the winners at <http://www.longislandindex.org/Build-a-Better-Burb.827.0.html>
 - OPTIONAL; Reurbia competition. View the competition, the finalists and comments at <http://www.re-burbia.com/>
 - OPTIONAL: TownShift competition. View the competition, the finalists and comments at <http://staging.townshift.com/competition/rules.php>

Mar 31

Retrofitting Atlanta: Private Sector Tales From the Trenches.

Student-moderated presentations and discussion of the private sectors role in retrofitting suburbia.

- Christopher Leinberger, Mason Alexander, *The WalkUP Wake-Up Call: Atlanta* available for download at: <http://www.smartgrowthamerica.org/documents/walkup-wake-up-atlanta.pdf>
- Paul Krugman, "Stranded by Sprawl," *New York Times*, July 28, 2013, online at: http://www.nytimes.com/2013/07/29/opinion/krugman-stranded-by-sprawl.html?_r=0
- Jonathan Lerner ed., *Building Metropolitan Atlanta: Past, Present & Future* (Congress for the New Urbanism 18, 2010), pp.36-39. Browse the book to see documentation and discussion of Atlanta's old and new neighborhoods and policies.
- OPTIONAL: Sarah Kirsch, "Staying on Track in Atlanta," *Urban Land*, March 2009, pp48-58. This article is in T-Square.
 - OPTIONAL: Hank Dittmar and Gloria Ohland, *The New Transit Town*, (2004), Chapter 9 "The Atlanta Case Study: Lindbergh City Center" (p.175-192) on reserve and in google books.
 - OPTIONAL: Atlanta Regional Commission, "A Decade of Change in the Atlanta Region: A Closer Look at the 2010 Census," *Regional Snapshot*, April 2011.
- OPTIONAL: Joel Anderson, "Questions about CIDs Spur Legislative Review," *Atlanta Journal-Constitution*, Dec 8, 2011, Metro, p.B1.

Apr 7 Student Research Paper Presentations

Apr 14-16 Student Research Paper Presentations rescheduled for Apr 16

Apr 22 Architecture Final Reviews – no class

Apr 30 Final Paper due at noon