

FALL 2019

**GRADUATE COURSE OUTLINE****MASTER OF ARCHITECTURE AND LANDSCAPE ARCHITECTURE PROGRAMME****COURSE CODE:** ARC 3015YF, LAN 3016Y**COURSE TITLE:** Places of Production: Forest and Factory**CLASSROOM LOCATION:** Locations indicated on studio schedule**CLASS HOURS:** T 9am – 1pm, 2pm – 6pm and F 2pm – 6 pm**INSTRUCTOR NAME:** Professor Brigitte Shim, Professor Robert Wright**INSTRUCTOR EMAIL:** [brigitte.shim@daniels.utoronto.ca](mailto:brigitte.shim@daniels.utoronto.ca), [robert.wright@daniels.utoronto.ca](mailto:robert.wright@daniels.utoronto.ca)**OFFICE HOURS:** To be determined**OFFICE LOCATION:** Shim Room 337, Wright Room 334U  
OF  
T**COURSE DESCRIPTION:**

This joint design studio explores the intersection between the disciplines of forestry, architecture, landscape architecture and urban design. Architecture, landscape architecture and urban design students will work together to realize a comprehensive project designing an industrial building and its landscape. The forest and the factory are both an organized nature constructed to speak eloquently about our contemporary attitudes towards nature and production. Each studio group will provide an integrated design response to the studio brief considering the role of the landscape and built form to address a bold design solution that explores the role of forestry and design simultaneously.

**COURSE OBJECTIVES:**

A large portion of the world's population spends much of their time in places of production such as factories and industrial facilities. In most cases, these facilities are built with only economic performance in mind; the welfare of those who work in these buildings has not been a major concern. The definition of industry is changing rapidly, and the modes of production are transforming. Canada is a country that still relies on primary resources as a central part of its economy. The shift to a value-added economy is an essential part of our future and the role of advanced sustainable industrial buildings is part of our collective future.

The forest is a constructed landscape that continues to be a valued natural resource. The factory as a building type and its surrounding landscape needs to be rethought and reconsidered. Innovative industrial spaces using cross laminated timbers (CLT) construction have the potential to create humane and sustainable space reinventing the workplace of the future.

During this time of environmental crisis, we need to rethink the design of our forest in Southern Ontario, Canada and explore its re-integration within the production of value-added wood products. We need to act sustainably to provide exemplary models for reforestation and building with one of our most renewable resources – wood. Architecture, landscape architecture and urban design students will work together to realize a comprehensive response to the studio design brief requiring an industrial building to house a CLT facility for our industry partner, Element 5 on their new factory site. The factory will utilize CLT construction and reconceptualize its surrounding industrial landscape as a site for the forest of the future. Element5 is an Ontario based CLT fabrication company that partnered with the university to provide our students with deep understanding of their CLT fabrication process, and their program needs.



## Places of Production: Forest and Factory

### SCHEDULE: ARC3015-LAN3016Y, L0103 Shim-Wright Option Studio, Course Schedule

Wk	Details	Wk	Details
0	<ul style="list-style-type: none"> <li>- Monday Sept. 2, 2019, Labour Day University Closed</li> <li>- Tuesday Sept 3, First day of classes</li> <li>- Wed. Sept. 4, Option Studio Presentations, 1 pm</li> </ul>	7	<ul style="list-style-type: none"> <li>- Tues. Oct. 22, 9 am - 1 pm, In Studio Crits with Instructors</li> <li>- <b>Midday Talk: Forestry and Design Series, 12:30 pm - 1:30 pm, Room 200, Dr. Daniela Puric-Mladenovic, "The Southern Ontario Forest"</b></li> <li>- Tues. Oct 22, 2-30 pm - 6 pm. In Graduate Studio, Desk Crits with Dr. Daniela Puric-Mladenovic and instructors: further discussion about Southern Ontario Forests</li> <li>- Fri. October, 25, 2 pm - 6 pm, Graduate Studio, Desk Crits with Instructors</li> </ul>
1	<ul style="list-style-type: none"> <li>- Tues. Sept. 9 First Day of Classes</li> <li>- Tues. Sept. 10, 9 am - 1 pm Room 300, First Studio Class, Present Design Objectives of Studio and Review Studio Schedule</li> <li>- Fri. Sept. 13, 2 pm - 6 pm, Room 340, Screening "Call of the Forest: The Forgotten Wisdom of Trees"</li> </ul>	8	<ul style="list-style-type: none"> <li>- Monday October 28, Last day to drop classes</li> <li>- Tuesday Oct. 29, 9am - 1 pm, In Graduate Studio, Desk Crits with Instructors</li> <li>- <b>Midday Talk: Forestry and Design Series, 12:30 pm - 1:30 pm, Room 200, Mass Timber Institute, with Craig Appleqath (Dialog Design), Ryan Kaiser (MTI) "Mass timber buildings"</b></li> <li>- Friday Nov. 1, 2pm - 6 pm, Graduate Studio, Desk Crits with Instructors</li> </ul>
2	<ul style="list-style-type: none"> <li>- <b>Tues. Sept 17, Field Trip to Haliburton Forest, Haliburton Ontario, Bus leaves at 7 am from Daniels and Returns to Toronto 9 pm</b></li> <li>- Fri. September 20, 2 pm - 6 pm Room 330, Interim Presentation of Case Studies 18</li> </ul>	9	<ul style="list-style-type: none"> <li>- Tues. Nov. 5, 9 am - 1 pm, Room 230, Interim Review – Focus on approach to structure</li> <li>- Tues. Nov. 5, 2 pm - 6 pm, Room 230, Interim Review – Focus on approach to structure</li> <li>- Fri. Nov. 8, 2 pm - 6 pm, Graduate Studio, Desk Crits with Instructors</li> </ul>
3	<ul style="list-style-type: none"> <li>- Monday September 23, Last day to add classes</li> <li>- Tues. Sept. 24, 9 am - 12 pm, Room 215 Seminar Lead by Dan Handel, and instructors</li> <li>- <b>Midday Talk: Forestry and Design Series, 12:30 pm - 1:30 pm, Room 200, Dan Handel, "Forest Primers"</b></li> <li>- <b>Tues. Sept. 24, 2-30 pm - 6 pm, Room 215 Seminar Lead by Dan Handel and instructors</b></li> <li>- <b>Thursday Sept. 26, 6:30 pm, Principal Hall, Design Panel discussion "Why Forests Matter" Dan Handel, (Tel Aviv) Stephanie Seymour (Toronto), Moderated by Brigitte Shim.</b></li> <li>- Fri. Sept. 27, 2p pm - 6pm Room 209, Seminar lead by Dan Handel and instructors. Final Review – Case Studies</li> </ul>	10	<ul style="list-style-type: none"> <li>- <b>Tues. Nov. 12, 7 am Meet at 1 Spadina Crescent. Travel to Wood Construction Training Facility, Carpenter's Union, 222 Rowntree Dairy Road, Woodbridge, ON, L4L 9T3. Visit CLT training for residential and industrial buildings. Return to Daniels by noon.</b></li> <li>- <b>Midday Talk: Forestry and Design Series, 12:30 pm - 1:30 pm, Room 200, Dr. Sandy Smith, Daniels Faculty, "Urban Forests."</b></li> <li>- Tues. Nov. 12, 2 pm - 6 pm, Graduate Studio, Desk Crits with Instructors</li> <li>- Fri. Nov. 15, 2 pm - 6 pm, Graduate Studio, Desk Crits with Instructors</li> </ul>
4	<ul style="list-style-type: none"> <li>- Tuesday Oct. 1, 9 am – 1 pm Graduate Studio, Desk Crits with instructors</li> <li>- <b>Midday Talk: Forestry and Design Series, 12:30 pm - 1:30 pm, Room 200, Dr. Sean Thomas - "Forests, Architecture and Sustainability"</b></li> <li>- Tues. Oct 1, 2-30 pm - 6 pm, Graduate Studio, Desk Crits with instructors</li> <li>- Fri. October 4, 2pm – 6 pm, Graduate Studio.</li> <li>- <b>Unbuilt Projects, 2 pm, "Academic Tower" MJM architects with Blackwell Structural Engineers, 6-425 Adelaide Street West M5V 3C1,</b></li> <li>- <b>4 pm "The Arbor" George Brown college, Moriyama &amp; Teshima Architects, 117 George Street M5A 2N4</b></li> </ul>	11	<ul style="list-style-type: none"> <li>- Tues. Nov. 19, 9 am - 1 pm, Room 230 Interim Review with Instructors</li> <li>- Tues. Nov. 12, 2 pm - 6 pm, Room 230, Interim Review with Instructors</li> <li>- Friday Nov 22 Graduate Studio, Desk Crits with Instructors</li> </ul>
5	<ul style="list-style-type: none"> <li>- <b>Tues. Oct. 8, 9 am - 1pm, Room 340, Presentation on Mass Timber production by Element 5</b></li> <li>- Tues. Oct. 8, 2 pm - 6pm Graduate Studio.</li> <li>- <b>Visit 2 pm 35 Golden Avenue, M6R 2J5 by Superkul, 5 pm 80 Atlantic Avenue by Quadrangle, M6K 2E4</b></li> <li>- Friday, Oct. 11 2pm - 4 pm, Graduate Studio, Desk Crits, with Instructors.</li> <li>- <b>Friday Oct 11, Visit Sidewalk Labs, 5 pm – 7 pm, 307 Lake Shore Blvd E, Toronto, ON M5A 1C1</b></li> </ul>	12	<ul style="list-style-type: none"> <li><i>November 29, Last day of Classes</i></li> <li><i>November 25-29 Black Out week (no assignments/review deadlines)</i></li> <li>- Tues. Nov. 26, 9 am - 1 pm, Room 230, Graduate Studio Interim Review with Instructors</li> <li>- Tues. Nov. 26, 1 pm - 2 pm, Room 230 Graduate Studio Interim Review with Instructors</li> <li>- Fri. Nov. 29, 2 pm - 6 pm Graduate Studio, Interim Review with Instructors</li> </ul>
6	<ul style="list-style-type: none"> <li>- Tues., October 15, 9 am - 1 pm, Room 230. Interim Pin Up, Site Concept, Guest Critic Jane Hutton.</li> <li>- <b>Midday Talk: Forestry and Design Series, 12:30 pm - 1:30 pm, Room 200, Jane Hutton, "Wood Urbanism" and followed by Book Launch</b></li> <li>- <b>Tues. Oct. 15, 2 pm - 6 pm, Interim Pin Up, Room 230, Site Concept, Guest Critic Jane Hutton.</b></li> <li>- Friday, Oct. 18 2pm - 4 pm, Graduate Studio, Desk Crits, with Instructors.</li> </ul>		<ul style="list-style-type: none"> <li><i>December 2019 Final Reviews</i></li> <li>- Invited guests include Element 5, Forestry faculty, Blackwell Engineering, Mass Timber Institute University of Toronto, Daniels Faculty of Architecture, Landscape Architecture and Design.</li> </ul>



## Places of Production: Forest and Factory

**COURSE READINGS:** ARC3015-LAN3016Y, L0103 Shim-Wright Option Studio, Course Schedule

Abel Rodríguez with Carlos A. Rodríguez & Catalina Vargas Tovar. "The Ancestral Tree of Plenty". Pgs. 96-123. *The world is still a Forest. Intercalations 4*, Edited by Anna-Sophie Springer & Etienne Turpin. K. Verlag and Haus der Kulturen de welt, Berlin, 2017. ISBN 978-3-9818635-0-5

Alan Organschi "The Carbon Transect" Wood Urbanism; From the Molecular to the Territorial Pgs.111-127, Editors Daniel Ibañez, Jane Hutton, Kiel Moe, Actar Publishers, New York, Barcelona, 2018. ISBN 978-1-945150-81-4

Albert Pope and Jesús Vasallo, "Urban Reform", Wood Urbanism; From the Molecular to the Territorial Pgs.317-323, Editors Daniel Ibañez, Jane Hutton, Kiel Moe, Actar Publishers, New York, Barcelona, 2018. ISBN 978-1-945150-81-4

Conan, Michael. *Environmentalism in Landscape Architecture*. Washington: Dumbarton Oaks Research Library and Collection, 2000.

Dan Handel. "It Goes On Like a Forest". Pgs. 40-64. *The world is still a Forest. Intercalations 4*, Edited by Anna-Sophie Springer & Etienne Turpin. K. Verlag and Haus der Kulturen de welt, Berlin, 2017. ISBN 978-3-9818635-0-5

Daniel Barber and Erin Putalik "Forest, Tower, City: Rethinking the Green Machine Aesthetic". Harvard Design Magazine, No. 45, S-S 2018. Pgs. 234-243. Harvard University Graduate School of Design. ISSN 1093-4421

Giorgio Agamben's "The Divine Forest". Harvard Design Magazine, No. 45, S-S 2018. Pgs. 102-105. Harvard University Graduate School of Design. ISSN 1093-4421

Glossary, Wood Urbanism; From the Molecular to the Territorial Pgs.451-473, Editors Daniel Ibañez, Jane Hutton, Kiel Moe, Actar Publishers, New York, Barcelona, 2018. ISBN 978-1-945150-81-4

Hiltner, Ken, Stephanie LeMenager, and Teresa Shewry. *Environmental Criticism for the Twenty-First Century*. United Kingdom: Routledge, 2012.

John Muir. "The American Forest". Atlantic Monthly, August 1897, <https://www.theatlantic.com/magazine/archive/1897/08/the-american-forests/305017/>

Jones, Susan. *Mass Timber: Design and Research*. China: ORO Editions, 2017.

Mackert, Gabriele, and Paul Petritsch. *Mensch macht Natur / Humans Make Nature. Landschaft im Anthropozän / Landscapes of the Anthropocene*. Berlin: De Gruyter, 2016.

Matti Kuitinen, "Carbon" Wood Urbanism; From the Molecular to the Territorial Pgs.91-97, Editors Daniel Ibañez, Jane Hutton, Kiel Moe, Actar Publishers, New York, Barcelona, 2018. ISBN 978-1-945150-81-4

Mayo, Joseph. *Solid Wood: Case Studies in Mass Timber Architecture, Technology and Design*. New York: Routledge, 2015.

Morton, Timothy. *Ecology Without Nature*.

Cambridge: Harvard University Press, 2009.

Murphy, Douglas. *Last Futures: Nature, Technology and the End of Architecture*. London: Verso, 2016.

Naar, Jon. *Design for a Livable Planet: How You Can Help Clean Up the Environment*. New York: HarperCollins, 1990.

Oliver Curtis "Nominal Versus Actual: A History of the 2X4". Harvard Design Magazine, No. 45, S-S 2018. Pgs. 40-41. Harvard University Graduate School of Design. ISSN 1093-4421

Orff, Kate. *Toward an Urban Ecology*. New York: The Monacelli Press, 2016

Parenti, Christian. *Tropic of Chaos: Climate Change and the New Geography of Violence*. New York: Nation Books, 2012.

Robert Pogue Harrison. "Preface: Forests: The Shadow of Civilization:". Pgs. IX-XI. The University of Chicago Press, Chicago, 1992. ISBN 0-226-31807-9

Sean Mahony, "Branches Knots and Offcuts", Wood Urbanism; From the Molecular to the Territorial Pgs.27-31, Editors Daniel Ibañez, Jane Hutton, Kiel Moe, Actar Publishers, New York, Barcelona, 2018. ISBN 978-1-945150-81-4

Sean Mahony, "Branches Knots and Offcuts". Wood Urbanism; From the Molecular to the Territorial Pgs.27-31, Editors Daniel Ibañez, Jane Hutton, Kiel Moe, Actar Publishers, New York, Barcelona, 2018. ISBN 978-1-945150-81-4

Ursula K. Le Guinn, "The Word for World is Forest". Berkley, New York, 1976, ISBN 0425032795 9780425032794 (this is a short story/book)

