

# Fabrication Lab (Academic Year 2017/18)

Architecture

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54 items

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## Digital Fabrication (17 items)

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**HUMANIZING DIGITAL REALITY: design modelling symposium 2017 - 2017**

**Book** | Essential

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**Fabricate** - Achim Menges, Bob Sheil, Ruairi Glynn and Marilena Skavara, April 2017

**Book** | Essential | Also available for download at  
<http://www.ucl.ac.uk/ucl-press/browse-books/fabricate>

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**Fabricate: negotiating design & making** - Eidgenössische Technische Hochschule Zürich, FABRICATE (Conference), 2014

**Book** | Essential | Also available for download at  
<http://www.ucl.ac.uk/ucl-press/browse-books/fabricate-2014>

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**Fabricate: making digital architecture** - 2012

**Book** | Essential | Also available for download at  
<http://www.ucl.ac.uk/ucl-press/browse-books/fabricate-2011>

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**Digital fabrications: architectural and material techniques** - Lisa Iwamoto, c2009

**Book**

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**Material strategies in digital fabrication** - Christopher Beorkrem, 2013

**Book** | Essential

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**Advancing wood architecture: a computational approach** - 2017

**Book** | Essential

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**Architectural Design - High Definition: Zero Tolerance in Design and Production**

**Article** | Essential

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**Animate form** - Greg Lynn, 1997

**Book** | Essential

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**Parametricism 2.0: Rethinking Architecture's Agenda for the 21st Century AD (Architectural Design)** - 25 Mar. 2016

**Journal** | Essential

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**The architecture of emergence: the evolution of form in nature and civilisation** - Michael Weinstock, 2010

**Book** | Essential

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**NOX: machining architecture** - Lars Spuybroek, Lars Spuybroek, 2004

[Book](#)

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**Animate form** - Greg Lynn, 1997

[Book](#) | **Essential**

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**The autopoiesis of architecture: a new framework for architecture, Vol. 1** - Patrik Schumacher, c2011-

[Book](#) | **Essential**

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**The sympathy of things: Ruskin and the ecology of design** - Lars Spuybroek, c2011

[Book](#) | **Essential**

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**Research & design: the architecture of variation** - Lars Spuybroek, 2009

[Book](#) | **Essential**

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**A thousand years of nonlinear history** - Manuel De Landa

[Book](#) | **Essential**

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## Structural design (5 items)

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**Innovative surface structures: technology and applications** - Martin Bechthold, 2008

[Book](#)

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**Shell structures for architecture: form finding and optimization** - 2014

[Book](#)

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**Digital processes: planning, design, production** - Moritz Hauschild, Rudiger Karzel, Cornelia Hellstern, c2011

[Book](#) | **Essential**

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**Design engineering refocused** - 2016

[Book](#) | **Essential**

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**Detail kultur: if buildings had DNA : case studies of mutations : the complex behavior of collective detail, 10 lenses, 12+1 projects** - Christoph a Kumpusch, 2016

[Book](#) | **Essential**

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## Robotics (7 items)

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**Made by robots: challenging architecture at the large scale** - 2014

[Book](#)

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**The robotic touch: how robots change architecture** - Eidgenossische Technische Hochschule Zurich. Chair of Architecture and Digital Fabrication, 2014

[Book](#) | **Essential**

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**Macrofabrication with Digital Materials: Robotic Assembly** - Neil Gershenfeld, Matthew Carney, Benjamin Jenett, Sam Calisch, Spencer Wilson, 2015-09

[Article](#) | **Essential**

## Construction Robots

[Book](#) | Essential

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**Robotic Industrialization** - Thomas Bock, Thomas Linner, 2015

[Book](#) | Essential

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**Robot-oriented design: design and management tools for the deployment of automation and robotics in construction** - Thomas Bock, Thomas Linner, 2014

[Book](#) | Essential

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**Site Automation: Automated/Robotic On-Site Factories (Cambridge Handbooks on Construction Robotics)** - 18 April 2016

[Book](#) | Essential

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## Wood (2 items)

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**Advancing wood architecture: a computational approach** - 2017

[Book](#) | Essential

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**Timber gridshells: architecture, structure and craft** - John Chilton, Gabriel Tang, c2017

[Book](#) | Essential

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## Casting (2 items)

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**Mouldmaking and casting** - Nick Brooks, 2005

[Book](#) | Essential

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**Advanced mouldmaking and casting** - Nick Brooks, 2011

[Book](#) | Essential

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## Model Making (3 items)

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**Model making** - Megan Werner, c2011

[Book](#) | Essential

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**Model making: conceive, create and convince** - Arjan Karssen, Bernard Otte, 2014

[Book](#) | Essential

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**Model making for architects** - Matthew Driscoll, 2013

[Book](#) | Essential

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## Folding (6 items)

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**Folding in Architecture** - Greg Lynn, c2004

[Book](#) | Essential

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**Folding techniques for designers: from sheet to form** - Paul Jackson, 2011

[Book](#) | Essential

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**Supersurfaces: folding as a method of generating forms for architecture, products and fashion** - Sophia Vyzoviti, 2006

[Book](#) | Essential

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**Folding architecture: spatial, structural and organizational diagrams** - Sophia Vyzoviti, 2012

[Book](#) | Essential

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**Structural packaging: design your own boxes and 3-D forms** - Paul Jackson, 2012

[Book](#)

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**Cut And Fold Techniques For Popup Designs** - 2014

[Book](#)

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## Data-driven Design (2 items)

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**Data-driven design and construction: 25 strategies for capturing, analyzing and applying building data** - Randy Deutsch, 2015

[Book](#) | Essential

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**Convergence: the redesign of design** - Randy Deutsch, 2017

[Book](#) | Essential

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## Materiality (10 items)

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**Smart materials and new technologies: for the architecture and design professions** - D. Michelle Addington, Daniel L. Schodek, Ebooks Corporation, 2005

[Book](#) | Essential

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**Smart materials in architecture, interior architecture and design** - Axel Ritter, c2007

[Book](#) | Essential

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**Material matters: new materials in design** - Philip Howes, Zoe Laughlin, Phoebe Stubbs, c2012

[Book](#) | Essential

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**Materialogy: the creatives guide to materials and technologies** - Daniel Kula, Elodie Ternaux, 2014

[Book](#) | Essential

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**Transmaterial: a catalog of materials that redefine our physical environment** - Blaine Erickson Brownell, 2006

[Book](#) | Essential

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**Transmaterial 2: a catalog of materials that redefine our physical environment** - Blaine Erickson Brownell, c2008

[Book](#) | Essential

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**Transmaterial 3: a catalog of materials that redefine our physical environment** - Blaine Erickson Brownell, c2010

**Book** | Essential

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**Transmaterial next: a catalog of materials that redefine our future** - Blaine Erickson  
Brownell, 2017

**Book** | Essential

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**Material strategies: innovative applications in architecture** - Blaine Brownell, 2012

**Book** | Essential

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**Hypernatural: architecture's new relationship with nature** - Blaine Erickson Brownell, Marc  
Swackhamer, 2015

**Book** | Essential