

Yestermorrow Design/Build School

Design for Deconstruction and Reconstruction

Course Description:

This course will take students through the processes of harvesting building materials from existing structures, design to incorporate these materials into new constructions that are adaptable and deconstructable, and finally building one or more small scale structures using reclaimed materials. Outcomes include knowledge of safe and best practice for salvaging materials for reuse, learning about and developing solutions to the challenges of integrating reclaimed components into the design of small scale structures, and understanding and hands-on practice of principles of design for adaptability and deconstruction. Learning to salvage materials and designing with reclaimed materials in ways that allow building and materials reuse is the basis for a practice of lifecycle design. The course will include lectures, discussions, design, and hands-on deconstruction and construction.

This course will be roughly divided between salvaging building materials, processing and remanufacturing them based upon fitness for use, and then design and build of a small-scale project for the Yestermorrow campus. Lectures and discussions will precede

Class Details:

Topics addressed in this course include:

Materials harvest and re-use; Group design and construction; Design/build; Installation art and temporary structures; Programming and design for human use; Human interaction with space; Site topics; Materials exploration

Schedule

Sunday Evening

- Introduction
- Lecture(s) and present goals, opportunities and constraints of the project and charrette by students to develop preliminary concepts.
- Brad Materials reuse Deconstruction and Self Introduction
- Dee Self Introduction and mobile/modular architecture and installation art talk

Day One – Monday

- MATERIALS SALVAGE AND ASSESSMENT
- Day - Orientation to salvaging
- Materials Issues; Dos and Don'ts of Salvaging
- On site tools orientation
- Materials salvaging begins
- Night – Design Charrette narrowing down initial schemes

Day Two – Tuesday

- JOINERY AND CONNECTION-MATERIAL ASSESSMENT
- Day - Materials salvaging project and/or possible trip(s) to ReSOURCE in Burlington or other salvage and/or lumber yards.
- Night –individual connection, component, assembly explorations in shop. Explore details in shop continue to define and develop group design.

Day Three – Wednesday

- DE_MOUNTABILITY/RE_MOUNTABILITY
- Day - Materials salvaging project and/or possible trip(s) to ReSOURCE in Burlington or other salvage and/or lumber yards. Load materials to Yestermorrow campus.
- Lunch: Discussion, materials Demountability/remountability
- Late Afternoon – Finalize design and connection and component typology; connection inventory to determine hardware needs.
- Evening: Public Lecture

Day Four – Thursday

- CONSTRUCTION
- Day – Build pre-fabrication in shop and on-site

- Night – Build pre-fabrication in shop

Day Five – Friday

- CONSTRUCTION
- Day – Build pre-fabrication in shop and on-site
- Night – Build pre-fabrication in shop

Day Six – Saturday

- CONSTRUCTION
- Build - finish construction
- Present project
- Celebration Dinner

Suggested Reading

MATERIALS RE-USE AND SUSTAINABILITY

Durning, Alan and Ryan, John C.; STUFF THE SECRET LIVES OF EVERYDAY THINGS

Brower, Michael and Warren, Leon; THE CONSUMER'S GUIDE TO EFFECTIVE ENVIRONMENTAL CHOICES

Braungart, Michael and McDonough, William; CRADLE TO CRADLE: REMAKING THE WAY WE MAKE THINGS

Strasser, Susan; WASTE AND WANT: A SOCIAL HISTORY OF TRASH

Rogers, Heather; gone tomorrow: the hidden life of garbage

Royte, Elizabeth; GARBAGE LAND: THE SECRET TRAIL OF TRASH

Royte, Elizabeth; BOTTLEMANIA: HOW WATER WENT ON SALE AND WHY WE BOUGHT IT

GENERAL ARCHITECTURAL STUDIES

Ching, Francis; ARCHITECTURAL GRAPHICS

Ching, Francis; ARCHITECTURE: FORM, SPACE & ORDER

Crowe, Norman ; VISUAL NOTES

Block Friedman, Jonathan; CREATIONS IN SPACE

Koolhaas, Rem; DELIRIOUS NEW YORK

Koolhaas, Rem; SM, M, L, XL

Kahn, Louis; BETWEEN SILENCE AND LIGHT

Powell, Helen and D. Leatherbarrow; MASTERPIECES OF ARCHITECTURAL DRAWING

Shepherd, Paul; WHAT IS ARCHITECTURE?

Venturi, Robert with Scott Brown, Denise and Izenour, Steven; LEARNING FROM LAS VEGAS

Holl, Steven; Parallax

RELEVANT AND INTERESTING ARTISTS AND WEBSITES BLOGS:

CHRISTO AND JEANNE-CLAUDE

TIM HAWKINSON

THOMAS HIRSHORN

MICHAEL HEIZER

ANDY GOLDSWORTHY

JESSICA STOCKHOLDER

TARA DONOVAN

DONALD JUDD

LOUISE BOURGEOIS

FRED SANDBACK

SOL LEWITT

EL ANATSUI

<http://www.arcosanti.org/>

<http://www.superuse.org/>

<http://www.bustler.net/>

<http://archinect.com/>

<http://coolboom.net/>

<http://www.strangeharvest.com>

DAILY DOSE OF ARCHITECTURE: <http://archidose.blogspot.com/>

THE CRUNCHY CHICKEN: <http://www.thecrunchychicken.com/>

Tools/ Supplies to bring

- Strongly suggested: Clothes and dress for Vermont's changeable weather
- Boots (work, hiking, etc.)
- Work gloves
- Notepad and pen
- Flashlight
- Camera

- Enthusiasm
- Questions

Optional: Tool Belt and hand tools including:

- Tape measure
- Hammer
- Pry Bar
- Cat's Paw
- Screwdriver (5 in 1)