SketchUp Workshop 1

Doug Seidler

dseidler@marymount.edu

Assistant Professor, Interior Design
Marymount University
Schedule

Survey

What is Sketchup?

Intro to modeling
Components / Groups
Strong interior perspectives
SketchUp is not...

BIM (building information modeling)
a drafting tool
a rendering tool
SketchUp is not BIM
SketchUp is not BIM
SketchUp is not BIM
SketchUp is not BIM
SketchUp is not BIM
SketchUp is not a drafting tool
SketchUp is...

an intuitive 3D surface modeler
SketchUp is a surface modeler
Student work: Dora Elliott
Shaping Digital Design Curricula
Shaping Digital Design Curriculums

REVIT

DWG

Ps

Ai

?
# Shaping Digital Design Curricula

<table>
<thead>
<tr>
<th>Design Tool</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Presentation Tool</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Construction Documents</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

![Design Tools Icons]

©2011, All rights reserved
# Shaping Digital Design Curricula

<table>
<thead>
<tr>
<th>Design Tool</th>
<th>✔️</th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Presentation Tool</td>
<td>?</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Construction Documents</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

![Design Tool Icons](image1.png)

![Presentation Tool Icons](image2.png)

![Construction Documents Icons](image3.png)

©2011, All rights reserved
# Shaping Digital Design Curricula

## Design Tool
- ✔

## Presentation Tool
- ?
- ✔

## Construction Documents
- ✔

![Design Tool](image1.png)
![Presentation Tool](image2.png)
![Construction Documents](image3.png)

©2011, All rights reserved

www.dougseidler.com
# Shaping Digital Design Curricula

<table>
<thead>
<tr>
<th>Design Tool</th>
<th>✔</th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Presentation Tool</td>
<td>?</td>
<td>✔</td>
<td>✔</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Construction Documents</td>
<td></td>
<td>✔</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
# Shaping Digital Design Curricula

<table>
<thead>
<tr>
<th>Design Tool</th>
<th>Presentation Tool</th>
<th>Construction Documents</th>
</tr>
</thead>
<tbody>
<tr>
<td>✔</td>
<td>?</td>
<td>✔</td>
</tr>
<tr>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
</tbody>
</table>

Design Tool Options: SketchUp, Workshop 1: SCAD Feb 2011, REVIT, DWG

Presentation Tool Options: Adobe Photoshop (Ps), Adobe Illustrator (Ai), REVIT

Construction Documents Options: Adobe Illustrator (Ai), REVIT, DWG

©2011, All rights reserved

www.dougseidler.com
# Shaping Digital Design Curricula

<table>
<thead>
<tr>
<th>Design Tool</th>
<th></th>
<th></th>
<th></th>
<th>?</th>
</tr>
</thead>
<tbody>
<tr>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>?</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Presentation Tool</th>
<th></th>
<th></th>
<th></th>
<th>✔</th>
</tr>
</thead>
<tbody>
<tr>
<td>?</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Construction Documents</th>
<th></th>
<th></th>
<th></th>
<th>✔</th>
</tr>
</thead>
<tbody>
<tr>
<td>✔</td>
<td></td>
<td></td>
<td></td>
<td>✔</td>
</tr>
</tbody>
</table>

![Design Tool Icons](image1.png) ![Presentation Tool Icons](image2.png) ![Construction Documents Icons](image3.png)
## Shaping Digital Design Curricula

<table>
<thead>
<tr>
<th></th>
<th>Design Tool</th>
<th>Presentation Tool</th>
<th>Construction Documents</th>
</tr>
</thead>
<tbody>
<tr>
<td>✔️</td>
<td>?</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
</tr>
</tbody>
</table>

Design Tools: SketchUp, Adobe Photoshop (Ps), Adobe Illustrator (Ai), Revit, DWG

Presentation Tool: PDF

Construction Documents: Pen, Tape, Blueprints
# Shaping Digital Design Curricula

<table>
<thead>
<tr>
<th>Design Tool</th>
<th>✔️</th>
<th>✔️</th>
<th>✔️</th>
<th>✔️</th>
<th>?</th>
<th>✔️</th>
<th>✔️</th>
<th>✔️</th>
</tr>
</thead>
<tbody>
<tr>
<td>Presentation Tool</td>
<td>?</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Construction Documents</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
</tr>
</tbody>
</table>

Design Tools: SketchUp, Workshop
Presentation Tool: PowerPoint, Adobe Photoshop, Adobe Illustrator
Construction Documents: Revit, DWG

©2011, All rights reserved
www.dougseidler.com
Intro to modeling

SketchUp workshop 1
Line tool
Eraser tool
3D Orbit
Push Pull
Rectangle Tool
Move tool & Move a copy
Line tool
Line tool

10'

15'

10'

7'

5'
Line tool  Eraser tool

drawing lines - SketchUp Pro

Select end point or enter value.

Length ~ 6' 4 13/16"

©2011, All rights reserved
3D Orbit
Push Pull
Line tool
Push Pull

Select face to push or pull. Option = create new starting face.

Distance -2' 1 5/8"
Rectangle Tool

1. Select first corner.
2. Dimensions 15', 15'
3. Enter dimensions.
2’ x 2’ x 3’
Move tool

- Select object
- Pick Move tool
- CLICK
- DRAG
- CLICK
- Type 10’
- Press Enter
**Move tool**

- CLICK
- DRAG
- Type Distance (10’)
- Press Enter

Or
- CLICK
- DRAG
- CLICK
- Type Distance (10’)
- Press Enter
Move tool

Move
- Select Line
- Pick Move tool
- CLICK 1
- DRAG
- CLICK 2
- Type 1'
- Press Enter
Move a copy

Mac
Move + Option

Windows
Move + Ctrl

10’
Move a copy

Copy w/ distance
- CLICK
- DRAG
- Type Distance (10’)

Or
- CLICK
- DRAG
- CLICK
- Type Distance (10’)

Move a copy
Move multiple copies

Multiple Copy
- Select object
- Pick Move tool
- CLICK
- DRAG
- Type 10'
- Type *3
Multiple Copy
- Select object
- Pick Move tool
- tap Ctrl
- CLICK
- DRAG
- Type 30'
- Type /3