

COURSE SCHEDULE

PART 1 BASIC 3D MODELING and VISUALIZATION

Week 01
Jan 7 - 11
M Lecture **5:45 – 6:35pm: Course Introduction**
Tu Lab: RHINO 3D
Th Lab: RHINO 3D

Week 02
Jan 14 - 18
M Lecture **5:45 – 6:35pm: 2D and 3D Representation in Architecture**
Tu Lab: RHINO 3D
Th Lab: **DIGITAL PROGRESS SUBMISSION 01 (DROPBOX)**

Week 03
Jan 21 - 25
M Lecture **NO LECTURE – Martin Luther King, Jr.**
Tu Lab: RENDERING and PRESENTATION
Th Lab: **DIGITAL PROGRESS SUBMISSION 02 (DROPBOX)**

Week 04
Jan 28 – Feb 1
M Lecture **5:45 – 6:35pm: ASSIGNMENT PROGRESS DISCUSSION**
Tu Lab: RENDERING and PRESENTATION
Th Lab: RENDERING and PRESENTATION

PART 2 ADVANCED 3D MODELING + VISUALIZATION

Week 05
Feb 4 – 8
M Lecture **ASSIGNMENT 1 DUE MAIN GALLERY. PIN UP BETWEEN 5:20-5:40**
Tu Lab: RHINO 3D
Th Lab RHINO 3D

Week 06
Feb 11 - 15
M Lecture **5:45 – 6:35pm Advanced Rhino Modeling Techniques (Demo)**
Tu Lab: RHINO 3D
Th Lab: **DIGITAL PROGRESS SUBMISSION 01 (DROPBOX)**

Week 07
Feb 18 - 22
M Lecture **5:45 – 6:35pm Advanced Visualization with Blender 3D (Demo)**
Tu Lab: RENDERING and PRESENTATION
Th Lab: **DIGITAL PROGRESS SUBMISSION 02 (DROPBOX)**

Week 08
Feb 25 – Mar 1
M Lecture **5:45 – 6:35pm: ASSIGNMENT PROGRESS DISCUSSION**
Tu Lab: RENDERING and PRESENTATION
Th Lab: RENDERING and PRESENTATION

PART 3 BIM and PARAMETRIC MODELING

Week 09
Mar 4 – 8
M Lecture **ASSIGNMENT 3 DUE, DIGITAL SUBMISSION (DROPBOX)**
5:45 – 6:35pm Hangzhou Olympic Sports Park
Tu Lab: REVIT TUTORIAL
Th Lab: REVIT TUTORIAL

Week 10
Mar 11 - 15
M Lecture **5:45 – 6:35pm UNL Digital Design Work (Matt + Dan)**
Tu Lab: REVIT TUTORIAL
Th Lab: **DIGITAL TUTORIAL SUBMISSION (DROPBOX)**

~~Week 11~~ ~~M Lecture~~ ~~NO CLASS~~ ~~SPRING BREAK!~~

~~Mar 18 - 22~~

~~Tu Lab: NO CLASS SPRING BREAK!~~

~~Th Lab: NO CLASS SPRING BREAK!~~

Week 12 **M Lecture** **5:45 – 6:35pm Conceptual Modeling with Vasari (Demo)**

Mar 25 - 29

Tu Lab: REVIT + VASARI

Th Lab: DIGITAL PROGRESS SUBMISSION 01 (DROPBOX)

Week 13 **M Lecture** **5:45 – 6:35pm Conceptual Analysis with Vasari (Demo)**

Apr 1 - 5

Tu Lab: REVIT + VASARI

Th Lab: DIGITAL PROGRESS SUBMISSION 02 (DROPBOX)

Week 14 **M Lecture** **5:45 – 6:35pm ASSIGNMENT PROGRESS DISCUSSION**

Apr 8 - 12

Tu Lab: REVIT + VASARI

Th Lab: DIGITAL PROGRESS SUBMISSION 03 (DROPBOX)

Week 15 **M Lecture** **5:45 – 6:35pm Computational Design: Scripting and Automation**

Apr 15 - 19

Tu Lab: PRODUCTION

Th Lab: PRODUCTION

Week 16 **M Lecture** **ASSIGNMENT 3 DUE, DIGITAL SUBMISSION (DROPBOX)**
5:45 – 6:35pm CASE: Building + Technology

Apr 22 - 26

Tu Lab: No Class

Th Lab: No Class

~~Week 17~~ ~~EXAM WEEK (No Exam)~~

~~Apr 29 - May 3~~

RECOMMENDED READING

Cheng, Ron K C, [Inside Rhinoceros 4](#), Delmar Cengage Learning, 2008

Krygiel, Eddy; Reas, Phil; Vandezande, James; [Mastering Revit Architecture 2013](#), Sybex, 2012

Corser, Robert, [Fabricating Architecture: Selected Readings in Digital Design and Manufacturing](#), Architectural Press, 2010

Moussavi, Fashid, [The Function of Form](#), Actar 2009

Pottman, Helmut, et al., [Architectural Geometry](#), Bentley Institute Press

Schodek, Daniel, et al., [Digital Design and Manufacturing: CAD/CAM Applications in Architecture and Design](#), John Wiley & Sons, 2005

COURSE

COURSE WIKI

<http://wiki.theprovingground.org/unl-arch223-spring2013>

RHINO & GRASSHOPPER

www.rhino3d.com/tutorials.htm

<http://designreform.net>

PHOTOSHOP, ILLUSTRATOR, & IN-DESIGN

www.adobe.elementk.com

<http://designreform.net>

<http://www.vtc.com>

login/pass: Please see your lab instructor

AUTOCAD / REVIT

www.autodesk.com

www.cadtutor.net

<http://www.revitcity.com>

<http://www.softwaretrainingtutorials.com/revit-9.php>

UNL Sites

UNL Blackboard website my.unl.edu

UNL Information Services is.unl.edu

UNL Student Workshops itg.unl.edu/workshops/student.shtml#

[//archhome](http://archhome)

Electronic Reserve website

www.unl.edu/libr/reserve