Even before my brain had collected sufficient impressions to enable it to identify the room, it, my body, would recall from each room in succession what the bed was like, where the doors were, how daylight came in at the windows, whether there was a passage outside, what I had had in my mind when I went to sleep, and had found there when I awoke… the sleep which lay heavy upon the furniture, the room, the whole surroundings of which I formed but an insignificant part and whose unconsciousness I should very soon return to share.

-- Marcel Proust, from À la recherche du temps perdu (In Search of Lost Time)

OVERVIEW
This BDA workshop will explore memorialization and the potential of digital modeling in the architectural design process. Marcel Proust’s statement captures the power of memory on our perception of space and emphasizes the fact that human experience offers an abundant approach to the question of the nature of architecture and its role in the making of the world.

This workshop will ask students to create and represent digital models in relationship to a specific memory or event. Related to the idea of poetic analogy, students will explore how models can be used as a process of visualizing, thinking, and contemplating. Looking to examples of memorials, real and imagined, students will be asked to speculate on the role of memory in architectural design, and select a memorial for research and study during the workshop. There will be a series of lessons on the basic concepts of digital modeling and rendering, and students will be expected to produce a model and represent it in relationship to memorialization.
Class Schedule

Week 1  Wednesday, March 23, 2011 – Introduction  
Course overview, standards, and grading  
Assignment: The Interpretation of Dreams by Sigmund Freud - Chapter 1 Section A - B (pg. 35 - 55). Master Architect Redux: How Digital Progress Helped Restore the Role of Master Architect by Renee Cheng  
Assignment: Memory and architecture essay

Week 2  Monday, March 23, 2011 - Digital Modeling in Architecture  
Rhino and Grasshopper Introduction  
Assignment: Schematic digital model  
Memory and architecture essay due (10%)  

Week 2  Wednesday, March 30, 2011 - Memorial Case Studies  
Hiroshima National Peace Memorial Hall for the Atomic Bomb Victims  
Assignment: Scattering Ashes of the Family Dead: Memorial Activity among the Bereaved in Contemporary Japan by Satsuki Kawano  
Source: Ethnology, Vol. 43, No. 3 (Summer, 2004), pp. 233-248  
URL: http://www.jstor.org/stable/3774064  
Assignment: Japan image collection  
Schematic digital model due (10%)  

Week 3  Monday April 4th, 2011 – Cultural Memory  
Remembering through built form Modeling Workshop  
Assignment: What Memory? Whose Memory? By Thomas Fisher (pg. 283 - 293) from Memory and Architecture Edited by Eleni Bastéa  
Japan image collection due (10 %)  

Week 3  Wednesday, March 30, 2011 – Information Management and Parametric Modeling  
Rhino and Grasshopper Level 2  
Assignment: The Bomb Project – http://www.thebombproject.org

Week 4  Monday, April 4th, 2011 – Modeling Workshop  
Model Shop Tour 1 – Analog tools and Rhino and Grasshopper Level 3  
Bomb Project information research due (10%)  

Week 4  Wednesday, April 6th, 2011 – Modeling Workshop  
Model Shop Tour 2 – Digital Tools and War Memorials  
Assignment: 3D Printing Project  
Vietnam War memorial response paper due (10%)
**Week 5**  
**Monday, April 18th, 2011 – Modeling Workshop**  
Virtual Reality Lab  
Étienne-Louis Boullée, Cénotaphe a Newton (1784)  
Assignment: The Special and General Theory by Albert Einstein  
PART III : CONSIDERATIONS ON THE UNIVERSE AS A WHOLE 30. COSMOLOGICAL DIFFICULTIES OF NEWTON'S THEORY  
Source: The Project Gutenberg  

**Week 5**  
**Wednesday, April 20th, 2011 - Modeling Workshop**  
Rhino tools and techniques  
Assignment: 3D printing case study

**Week 6**  
**Monday, April 25th, 2011 – Modeling Workshop**  
Rhino tools and techniques continued  
Assignment: Digital Information Rhino Model  
3D printing case study due (10%)

**Week 6**  
**Wednesday, April 27th, 2011 – Modeling Workshop**  
Assignment: Memory, memorials, and commemoration by Anita Kasabova  
Source: History and Theory 47 (October 2008), 331-350

**Week 7**  
**Monday, May 2nd, 2011 – Digital Layout and Rendering**  
Digital Information Model Workshop  
Assignment: Rivers and Tides – Andy Goldsworthy Documentary  
Preliminary Model Review (10%)

**Week 7**  
**Wednesday, May 4th, 2011 Final Review**  
Final Review (20%)

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**Significant dates and projects**

**Wednesday, March 30, 2011**  
Memory and Architecture Essay Due (10%)

**Monday, March 23, 2011**  
Memory and architecture essay 10%

**Wednesday, March 30, 2011**  
Schematic digital model 10%

**Monday April 4th, 2011**  
Japan image collection 10 %

**Monday, April 4th, 2011**  
Bomb Project information research due 10%

**Wednesday, April 6th, 2011**  
Vietnam War memorial response paper 10%

**Monday, April 25th, 2011**  
3D printing case study 10%
Monday, May 2nd, 2011 Preliminary model review 10%
Wednesday, May 4th, 2011 Final Review 20%
Attendance and Participation 10%

Total grade 100%

Letter grades will be calculated as follows:

95 – 100 + %* A
80 – 94% B
70 – 79% C
60 – 69% D
59% or below F

* Extra credit will be given for 3D model images and prints submitted before the final class with prior instructor approval up to 10% of total grade.

Course Objectives

• To understand the role of memory in the built environment.
• To gain a critical understanding of the ways in which architects interact with digital technology.
• To speculate upon new modes of interaction between architect and computer.
• To gain basic proficiency in a digital modeling program and understand the design potential of these tools.

“We are all living with the consequences of the past. We are haunted by history and memory, and often nagged by a strange feeling that past events are somehow never really "over." Even though they are creatures of the past, history and memory cling to us in the present. At best, the past makes us feel warm and nostalgic; at worst, it makes us feel uncertain and uncomfortable, and at times even afraid. But to live in the present, and to plan for the future, we must realize that we are all citizens of a persistent past. It defines who we are today, and although the past is a hard thing to really know, we must seek to understand it.”

-- From Drury Universities 2010-2011 Theme Year