Class 1, March 27, 2012: What is a good detail design & how does Questions To Be Considered How do you apply principles of design to create a detail? How do detail designs fit into comprehensive/integrated design?	a it fit into comprehensive design? <i>in-class exercise 1:</i> Five S's proposal Total of all In-class exercises counts as 10% of mark
Things to Understand Definition of a detail. Comprehensive / Integrated Design = considering structure, skin, services, safety, sustainability together All materials in a building assembly tie to the structure. Industry's technical documentation standards.	<i>homework 1A:</i> Integrated design summary, part 1 (10% of mark) assigned March 27, 2012, due April 3, 2012):
Class 2, April 3, 2012: What are the impacts of MEP systems ("Services") on detail design?	
Questions To Be Considered What are the physical characteristics of each building service? What is the relationship of services to structure, skin, safety?	<i>in-class exercise</i> What's in YOUR ceiling
Things to Understand External elements of services affect details for skin. Internal elements of services affect details for safety. Detail designs for sets for skin affect sizes of services.	<i>homework:</i> none
Class 3, April 10, 2012: How do 'green principles' affect detail design?	
<i>Questions To Be Considered</i> What are time-honored strategies for sustainable building? What are contemporary strategies for sustainable building?	<i>in-class exercise:</i> The skylight - super insulation dilemma
<i>Things to Understand</i> Sustainable principles affect building design. Physical characteristics of "sustainable" services. Physical characteristics of "sustainable" skins.	<i>homework 1A assignment returned</i> <i>homework 1B:</i> Integrated design summary, part 2 (20% of mark) assigned April 10, 2012, due April 17, 2012
Class 4, April 17, 2012: What is the purpose of the building envelope ("Skin")?	
Questions To Be Considered	in-class exercise:
What is the purpose of the building envelope? What are the characteristics of various wall system designs?	Precipitation / thermal conductance / condensation 3 climates
Things to Understand Envelope components address wind force, precipitation, thermal conductance, condensation.	Envelope summary detail, part 1 (10% of mark) assigned April 17, 2012, due April 24, 2012):
How water vapor condenses within an envelope. Different climates have different envelope design strategies.	

Class 5, April 24, 2012: What are design strategies for wall assemblies?

Questions To Be Considered What is contemporary practice for envelope design?

Things to Understand Allen's condition for leak in assembly - water, force, opening. Envelope (skin) system components require continuity.

Class 6, May 1, 2012: Building Envelope Case Study

Questions To Be Considered What does reality look like?

Things to Understand Integrated design process Solutions must address all building systems *in-class exercise:* Parapet to window head

homework assignment 1B returned homework 3A: head, jamb, sill details- part 1 (10% of mark) assigned, April 24, 2012, due May 1, 2012

in-class exercise: Reduce carbon footprint of a brutalist classic

homework assignment 2A returned homework 2B: Envelope summary detail, part 2 (20% of mark) assigned May 1, 2012, due May 8, 2012

Class 7, May 8, 2012: What are design strategies for roofs and foundations?

Questions To Be Considered What are the characteristics of different kinds of roof systems What are the characteristics of foundation systems

Things to Understand Sloped and low sloped roof design strategies are different. Foundation design strategies

Class 8, May 15, 2012: Informal Recap

Informal discussion at time homework turned in.

in-class exercise: Window Sill to footing

homework assignment 3A returned homework 3B: head, jamb, sill details - part 2 (20% of mark) assigned May 8, 2012, due May 15, 2012

Turn in homework 3B