

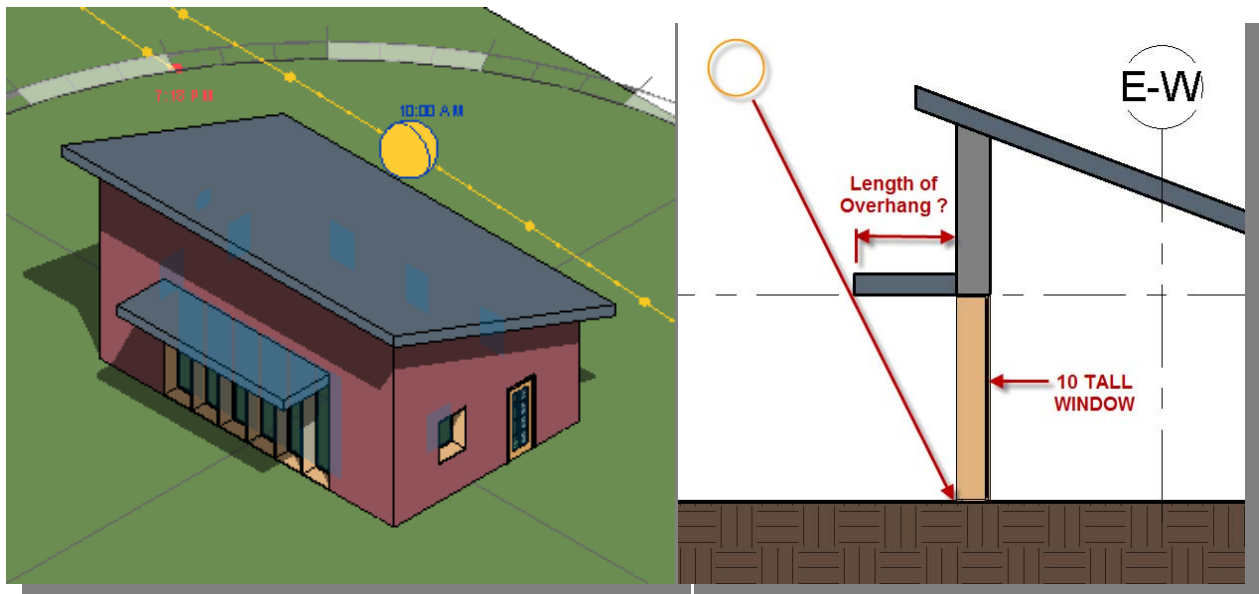


ARCH 1250 SITE PLANNING

DAY .02 HOMEWORK

Due posted to blackboard 12 hours before next class

An appropriate sun chart can be found on both the presentation and also in the Course documents folder on Blackboard or on the OpenLab Website. For help on the trigonometry see last slide of presentation. It may be helpful to draft a section to help you with the geometry.



CLIMATE AND SITE/BUILDING FORM

1. You are asked to completely shade (calculated at solar noon) a 10' tall glass window wall on the South side of a building from June 21 to August 21 for a house in Brooklyn, NY. You must do this with an overhang that extends outward directly above the window. How far out must the overhang extend from the building? (hint – calculate for the worst case).
2. Assume you have a 3' overhang above the same South facing 10' tall window. How much of the window will be in shade during the equinoxes (March 21 and September 21) at solar noon.

3. The same client wants to plant a hedge 6 feet away from the west wall of their house. They want this hedge to completely shade the 12' tall window of their house at 3pm on August 21st. How tall must the hedge be?

