

UNIVERSITY of NOTRE DAME
School of Architecture

BUILDING TECHNOLOGY I / ARCH 20411

September 20, 2012

**PROJECT #1
TECTONICS, ORGANIZATION & FORM**

“Roofs are the most important elements...”Alberti, *Ten Books*

A roof is primarily designed to shed water, but the disposition of a roof can also tell us a lot about the structure below: how wide it is in plan; where the primary part of a building is located; and how the spaces that are secondary and tertiary (and so on) are located in relationship to the main body of the building. A roof helps to establish the overall scale of a building, its organization and hierarchy. Therefore, the design of a building's roof begins at the beginning, in building planning, and is tied simultaneously to building tectonics (materials & methods), building organization, and building form.

In order to better understand the relationship between building tectonics, organization, and form, you will study the following buildings (4) in plan and elevation – drawings that are used to describe building organization and form – in order to determine the roof plan of each building, which you will provide, in sketch form, in the blank box on the right-hand side of the sheet. As an extension of this exercise, you are to find *two* additional building examples that clearly illustrate the relationship between building tectonics, organization, and form (plan, section, and elevation). To complete questions 5 & 6 (see reverse of the large sheet), you will provide the following drawings, in sketch form, for each of your (2) model buildings: ground floor plan, elevations (2), and roof plan, in addition to the building name, architect, date of completion, and source. As with examples 1-4, there should be a range of complexity in the buildings you select.

Project # 1 is due on Thursday, September 27 at 12:30 pm.