

## **Materials & Methods of Construction I – CON 161: Fall 2020**

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Note: You are to build the model you are assigned in class – Traditional OR Advanced
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### **Project 1: Scaled Model: Advanced Framing 15% of final grade**

The goal of this project is to prepare a study model of the corner of a single story Advance Framing / OVE energy efficient platform framed building showing the exterior and interior layers as depicted in the attached Building Science axonometric drawing.

**All materials are to be labeled and sized as accurately as possible.**

Scale: 1" = 1'-0"

Model: 2 stud corner plus 3 studs each side, single story over crawl space, include roof rafters and ridge

Nominal Material Sizes (Lumber – Douglas Fir-Larch) – you will scale these sizes to 1" = 1'-0"

2"x6" studs @ 24" on center

2"x6" sill plates, single top plate and sole plates

2"x8" floor joists @ 24" on center

2"x8" ceiling joists @24" on center

2"x8" roof rafters @ 24" on center

2"x12" triple beam

2"x12" ridge board

Do not forget taped and painted gypsum wall board, vapor control, insulation (loose fill cellulose in between studs and XPS rigid insulation taped on exterior)

See Angel – Learning Modules – Project 2 - for Advanced Framing details.

**Project is due: Thursday, April 9, 2020**

Wednesday Section = December 7<sup>th</sup>

