

School of Architecture  
Georgia Institute of Technology

## **ARCH 4833/8833 - REVIT**

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Fall 2018 / Th 6-9pm / Rm TBD

### **Course Description**

Visualizing a form enhances a designer's ability to communicate ideas and the ability to analyze and evaluate these forms provides the ability to optimize its performance.

Revit is not just a 3D modeling tool or a documentation tool. This course will demonstrate how Revit can facilitate the conception of a design from various points of genesis. This will then be contextualized in its applications in both the academic and the professional environment. Revit will be presented in relation to architectural concepts to understand why and how BIM can be used rather than just the functionality of the tool. Analytical, formal, and experimental processes will be integrated directly into the Revit learning tutorials. Case study "Show and Tells" will demonstrate real world applications of each subject in order to understand the reach of each exercise. Team projects will be assigned to understand the collaborative nature of Revit and BIM.

### **Course Objectives and Learning Outcomes**

- Integrate Revit as an active instrument in the design process, rather than just a documentation tool.
- Explore Revit critically and learn how to apply concepts in the context of an architectural project.
- Understand real world applications of Revit and its use in the industry
- Consideration of building performance measures through exporting the model for analysis
- Encourage collaboration by requiring students to work on a shared or linked model
- Understand how to leverage Revit and BIM beyond it just being a 3D model.

