

REVIT ADVANCED FOR ARCHITECTS

Credits:	Valid for 16 AIA hours/LUs
Prerequisite:	Working knowledge of Revit Architecture Fundamentals
Available Times:	2 days, 9:00am-5:00pm; 4 mornings, 9:00am-1:00pm; 4 late afternoons, 3:00pm-7:00pm or 4 evenings, 6:00pm-10:00pm

OBJECTIVE

In this class we will explore the family editor within Revit Architecture. The attendees will learn how to use families in a project, concepts of parametric design and family creation, and best practices to use when creating families.

TOPICS INCLUDE

UNDERSTANDING FAMILY TYPES This section will familiarize attendees with the concept of building elements, including the different types of families, and an introduction to the design environment for creating families.

LOADABLE FAMILIES OVERVIEW Attendees will learn how to create building components that would usually be purchased, delivered and installed in and around a building, such as windows, doors, casework, fixtures, furniture, and planting.

WORKING WITH SYSTEM FAMILIES In this section, students will be taught how to create system families, such as a custom wall, which exist only in the Revit Architecture project environment, and cannot be loaded or created externally, like loadable families.

CREATING DETAIL COMPONENT FAMILIES The central point of this section will be to instruct attendees on how to create detail component families, for example a window sill, that can be used for detailing a full window component family.

MODIFYING A DOOR FAMILY In this section users will learn how to create a custom door family based on a flush exterior door from the Revit Imperial Library. The following techniques will be reviewed: creating symbolic lines, adding parameters, creating solid geometry, assigning materials and defining family types.

CREATING FURNITURE This portion of the class will focus on creating a new bookcase family from a Revit Family Template. We will begin by creating a family skeleton and parameters, adding shelves and doors, finishing off by reviewing how to control visibility and creating a type catalog.

BUILDING A COMPLEX WINDOW FAMILY The section will instruct students on how to create a complex window family from a basic template using nesting standard families to be displayed and scheduled.

BEST PRACTICES This final segment of the class will review recommendations for Revit family creation in the context of optimized building information modeling and maintenance.

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