

ID 4715 - ADVANCED BUILDING INFORMATION MODELING: REVIT

Credits: 3

This senior-level course provides in-depth application of industry Revit standards and procedures using advanced application and utility functions. Emphasis is on two-dimensional drafting and design as they relate to the interior design industry through the development of detailed Revit drawings using protocols and management/distribution systems and their manipulation for different drawing types. Also, students are introduced to three-dimensional computer modeling as a design development and presentation tool. Upon successful completion of this course, students will demonstrate competence with advanced Revit standards and procedures through the development, management and distribution of Revit documents, as well as the use of three-dimensional modeling software for design investigation and presentation.

Prerequisites: ID 3715 - Building Information Modeling: Revit

Course Learning Outcomes	Exceeding	Meeting	Developing	Not meeting	Program Outcomes	Institutional Outcomes	CIDA Standards
Understand professional ethics and conduct.	Applies professional ethics and conduct.	Understands professional ethics and conduct.	Recalls professional ethics and conduct.	Does not understand professional ethics and conduct.	ID3 BUSINESS PRACTICES + PROFESSIONALISM	Cultural Competence, Communication Competence, Design Competence	CIDA Standard 6. Business Practices and Professionalism
Effectively apply the elements and principles of design and related theories throughout the interior design curriculum to three-dimensional design solutions.	Analyze the elements and principles of design and related theories throughout the interior design curriculum to three-dimensional design solutions.	Apply the elements and principles of design and related theories throughout the interior design curriculum to three-dimensional design solutions.	Recognize the elements and principles of design and related theories throughout the interior design curriculum to three-dimensional design solutions.	Does not the elements and principles of design and related theories throughout the interior design curriculum to three-dimensional design solutions.	ID8 DESIGN ELEMENTS + PRINCIPLES	Design Competence	CIDA Standard 11. Design Elements and Principles
Understand how design solutions affect and are impacted by vertical and horizontal systems of transport and circulation such as stairs, elevators, or escalators.	Evaluates how design solutions affect and are impacted by vertical and horizontal systems of transport and circulation such as stairs, elevators, or escalators.	Understands how design solutions affect and are impacted by vertical and horizontal systems of transport and circulation such as stairs, elevators, or escalators.	Recognizes that design solutions affect and are impacted by vertical and horizontal systems of transport and circulation such as stairs, elevators, or escalators.	Does not understand how design solutions affect and are impacted by vertical and horizontal systems of transport and circulation such as stairs, elevators, or escalators.	ID12 CONSTRUCTION	Design Competence	CIDA Standard 15. Construction
Read and interpret base-building construction documents.	Reads and critically interprets base-building construction documents with nuance.	Reads and interprets base-building construction documents.	Reads but cannot adequately interpret base-building construction documents.	Does not read or interpret base-building construction documents.	ID12 CONSTRUCTION	Design Competence	CIDA Standard 15. Construction
Contribute to the production of interior contract documents including drawings, detailing, schedules, and specifications appropriate to project size and scope.	Generates interior contract documents including drawings, detailing, schedules, and specifications appropriate to project size and scope.	Contributes to the production of interior contract documents including drawings, detailing, schedules, and specifications appropriate to project size and scope.	Contributes to the production of some interior contract documents but lacks the ability to contribute to all forms of drawings, detailing, schedules, and specifications appropriate to project size and scope.	Does not contribute to the production of interior contract documents including drawings, detailing, schedules, and specifications appropriate to project size and scope.	ID12 CONSTRUCTION	Design Competence	CIDA Standard 15. Construction