



South Central College

BDET 2150 REVIT II

Course Outcome Summary

Course Information

Description	This course enables students to expand their knowledge in setting up office standards with templates that include annotation styles, preset views, sheets and schedules as well as creating custom systems, in-place and component families. (Prerequisite: BDET 1250)
Total Credits	3
Total Hours	64

Types of Instruction

Instruction Type	Credits/Hours
Lecture	2/32
Lab	1/32

Pre/Corequisites

BDET 1250 REVIT

Institutional Core Competencies

Critical and Creative Thinking - Students will be able to demonstrate purposeful thinking with the goal of using a creative process for developing and building upon ideas and/or the goal of using a critical process for the analyzing and evaluating of ideas.

Course Competencies

1. Create custom templates with annotation styles, title blocks and custom element types

Learning Objectives

- Build custom REVIT templates.
- Create review templates.
- Configure your REVIT templates with consistent annotations.

2. Create schedules including material takeoff schedules with formula.

Learning Objectives

- Demonstrate an understanding of importing and exporting schedules.
- Demonstrate an understanding of filtering, sorting and formatting schedules.
- Generate REVIT schedules with correct field parameters.

3. Create custom wall, roof and floor types as well as Mechanical Electrical Plumbing (MEP) System Families.

Learning Objectives

Create component families.
Demonstrate an understanding of modifying component families.
Understand the basics of component families.

4. Demonstrate an understanding of component family fields with a parametric framework.

Learning Objectives

Demonstrate an understanding of creating and saving family files.
Create intelligent parametric families for content libraries.
Demonstrate an understanding of the different family types, features of the family editor command.

5. Create family geometry.

Learning Objectives

Understand the process of adding solid geometry.
Review geometries that display in certain view types, specific levels of detail, and visibility parameter settings.

6. Create family types.

Learning Objectives

Load families into your project based on their category.
Demonstrate an understanding of advanced family techniques: controls, connectors and openings.
Demonstrate an understanding of families in design projects.

7. Modify the visibility of components and incorporate additional family items such as controls, MEP connectors and nested components.

Learning Objectives

Develop an understanding of Heating Ventilation Air Conditioning (HVAC) expressions.
Identify specific families utilized in mechanical drawings.

8. Create specific families, including in-place families, profiles, annotations and parameters.

Learning Objectives

Demonstrate an understanding of system, in-place and component families,
Create new types of these families by modifying existing parameters using element properties.
Demonstrate an understanding of host-based families.

9. Create building model views.

Learning Objectives

Demonstrate knowledge of creating callout views
Demonstrate knowledge of detailing views.
Demonstrate knowledge of drafting with views.

SCC Accessibility Statement

South Central College strives to make all learning experiences as accessible as possible. If you have a disability and need accommodations for access to this class, contact the Academic Support Center to request and discuss accommodations. North Mankato: Room B-132, (507) 389-7222; Faribault: Room A-116, (507) 332-7222.

Additional information and forms can be found at: www.southcentral.edu/disability

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