

REVIT – BUILDING INFORMATION MODELING (BIM) CERTIFICATE

12 Semester Credit Hours; Curriculum: 0259

The Revit Building Information Modeling Certificate prepares students for CAD design and drafting positions using Building Information Modeling software. BIM is an intelligent 3D model-based process that gives architecture, engineering, and construction (AEC) professionals the insight and tools to more efficiently plan, design, construct, and manage buildings and infrastructure. Possible job positions include Building Information Modeler, Architectural Draftsperson and Interior Draftsperson.

Code	Title	Hours
Courses for a Certificate		
CAD 220	Introduction to Building Information Modeling - Revit	4
CAD 224	Advanced Building Information Modeling - Revit	4
CAD 228	Revit MEP – Mechanical, Electrical, Plumbing	4
Total Hours		12

Revit – Building Information Modeling (BIM) Certificate Pathway

12 Semester Credit Hours; Curriculum: 0259

The following Pathway is recommended for students pursuing the Revit – Building Information Modeling (BIM) Certificate.

First Year		
Semester One		Hours
CAD 220	Introduction to Building Information Modeling - Revit	4
Hours		4
Semester Two		
CAD 224 or CAD 228	Advanced Building Information Modeling - Revit or Revit MEP – Mechanical, Electrical, Plumbing	4
Hours		4
Second Year		
Semester One		
CAD 224 or CAD 228	Advanced Building Information Modeling - Revit or Revit MEP – Mechanical, Electrical, Plumbing	4
Hours		4
Total Hours		12

Note: Pathway is a recommended sequence of courses. Students should contact the program coordinator with questions about course prerequisites and recommendations.

Program Learning Outcomes

1. Create parametric 3D models to design, build, and maintain higher-quality buildings.
2. Evaluate Building Information Models based on critical thinking and problem solving skills.
3. Identify the purpose of Building Information Management (BIM) and how it is applied.

4. Create 3D building models with walls, curtain walls, windows, and doors.
5. Set up sheets for plotting with text, dimensions, details, tags, and schedules.