

**Clackamas Community College**  
Online Course/Outline Submission System

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**Section #1 General Course Information****Department:** Manufacturing**Submitter**

First Name: David  
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**Course Prefix and Number:** CDT - 160**# Credits:** 3**Contact hours**

Lecture (# of hours):  
Lec/lab (# of hours): 66  
Lab (# of hours):  
Total course hours: 66

For each credit, the student will be expected to spend, on average, 3 hours per week in combination of in-class and out-of-class activity.

**Course Title:** Revit Architecture**Course Description:**

Introduction to the basic principals in Revit building. From design to construction documents, students will create floor plans using walls, doors and windows; add furniture fixtures, curtain walls, floors, ceiling grids, and generate elevations, sections, details and schedules directly from the model.

**Type of Course:** Career Technical Preparatory**Reason for the new course:**

Changing the prefix from CAD to CDT

Is this class challengeable?

**No**

Can this course be repeated for credit in a degree?

**No**

Is general education certification being sought at this time?

**No**

Does this course map to any general education outcome(s)?

**No**

Is this course part of an AAS or related certificate of completion?

**Yes**

**Name of degree(s) and/or certificate(s):** Manufacturing Programs

Are there prerequisites to this course?

**No**

Are there corequisites to this course?

**No**

Are there any requirements or recommendations for students taken this course?

**No**

Are there similar courses existing in other programs or disciplines at CCC?

**No**

Will this class use library resources?

**Yes**

**Have you talked with a librarian regarding that impact?**

**No**

Is there any other potential impact on another department?

**No**

Does this course belong on the Related Instruction list?

**No**

**GRADING METHOD:**

A-F or Pass/No Pass

**Audit: Yes**

**When do you plan to offer this course?**

**✓ Not every term**

**Is this course equivalent to another?**

If yes, they must have the same description and outcomes.

**No**

**Will this course appear in the college catalog?**

**Yes**

**Will this course appear in the schedule?**

**Yes**

**Student Learning Outcomes:**

Upon successful completion of this course, students should be able to:

1. create, design and construct documents with Revit® Building software;
2. use the Building Information Modeling (BIM) and apply it to building design,
3. create basic element, walls, doors, windows, floor, roofs, etc.;
4. create drawing sheets of building designs.

***This course does not include assessable General Education outcomes.***

**Major Topic Outline:**

1. Building Information Modeling (BIM).
2. Revit Building Interface.
3. Starting a Design.
4. The Basic of Building.
5. Using Dimensions and Constraints.
6. Developing the Building Model.
7. Using Building components.
8. Creating Schedules.

9. Detailing and Drafting.

10. Presenting the Building Model.

Does the content of this class relate to job skills in any of the following areas:

- |                                      |           |
|--------------------------------------|-----------|
| 1. Increased energy efficiency       | <b>No</b> |
| 2. Produce renewable energy          | <b>No</b> |
| 3. Prevent environmental degradation | <b>No</b> |
| 4. Clean up natural environment      | <b>No</b> |
| 5. Supports green services           | <b>No</b> |

Percent of course: 0%

First term to be offered:

**Specify term:** 2016/WI