

CAD Department Course Outline

DRFT 2283 – Advanced Revit (S)

Catalog Description:

This course builds on the concepts introduced in DRFT 2233 and focuses on the more advanced concepts of Revit. Topics include site design, advanced rendering techniques, phasing and design options, creating families of custom components, and collaborating on design projects. Hands-on exercises in both metric and imperial units will be given.

Prerequisites:

DRFT 2233

Credit hours/Contact Hours/Load hours:

3/3/3

Target Audience/Transferability:

This course is an elective for the AAS CAD degree with the Architecture option and is non-transferable

Student Learning Outcomes:

Students will:

- Complete a complex design using Revit
- Create a professional-looking rendering of a building
- Create families of custom building components
- Create custom walls, floors and roofs to be used in a design project
- Create parametric families and family types
- Use Worksets to effectively collaborate on a design project
- Use other design packages to exchange data used for analysis and massing studies

Topics:

- Importing and exporting AutoCAD data
- Creating mass elements
- Creating parametric families and family types
- Creating specific families including doors and windows, in-place families, profiles, railings, and annotation families
- Prepare templates with settings including annotation styles, title blocks, and object styles
- Creating custom wall, floor, and roof types
- Use space planning and area analysis tools
- Creating perspectives, walkthroughs, and solar studies
- Rendering 3D views
- Using space planning and area analysis tools

Forms of Assessment:

- Drawing assignments
- Tests/quizzes
- Final Project submitted electronically and on paper

Rev. 7/2019