Course Description

CIVE 305 is divided into three segments: AutoCAD (ACAD), AutoCAD Civil3D, and Revit 2015. The first segment covers development of intermediate AutoCAD skills. Exercises include using AutoCAD to create a simple Floor Plan and Site Plan. AutoCAD Civil 3D is covered in this segment to provide the student with computer-aided design experience that is specific to Civil Engineering professional practice. Topics include development of Road Alignments and Profiles, Road Corridors, Grading, Pipe Networks, and Quantity Take-Off Sections. Revit is covered in the third and final segment of the course. Revit has advanced design and analysis capabilities that are used for Residential and Commercial projects, and Infrastructure projects. Building Information Modeling (BIM), design of Mechanical, Electrical, and Plumbing (MEP) systems, and Rendering are also covered using Revit.