DRAF 229 Autodesk Revit

Credit Hours:  3

Scheduled hours per week
  Lecture: 3
  Lab: 0
  Other: 0

Catalog Course Description: Students will learn the fundamentals of creating 3D models in an architectural environment using Autodesk Revit. Architectural drafting and design will be studied using 3D modeling that can be applied to many areas of engineering and construction.

Pre-requisites: DRAF 111

Course Learning Outcomes:

- Identify, visualize, and draw elevations, floor plans, sleeping area, living area, service area, and place architectural components.
- Create 3D models in Revit that apply to industrial, product, civil, or architectural design.
- Create two dimensional floor plans using Revit software, while following the rules of architectural design.
- Compute and solve geometric construction problems using the principals of plane geometry.
- Use accuracy and neatness, and speed in producing all required drawings.

Topics to be studied:

- Levels
- Floor Plans
- Exterior Walls
- Interior Walls
- Placing Doors, Windows, and Wall Openings
- Roofs
- Staircase
- Railings
- Columns
- Components

Relationship of Course to Program Learning Outcomes:

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<thead>
<tr>
<th>Learning Outcome</th>
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<tr>
<td>Create two and three-dimensional drawings using AutoCAD, Microstation, Inventor, Revit, and 3D Studio Max.</td>
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<tr>
<td>Create three-dimensional animations and walkthroughs using AutoCAD, Revit, Inventor and 3D Studio Max.</td>
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<td>Apply arithmetic, algebraic, and trigonometric calculations in solving basic design problems.</td>
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<td>Apply physics to solve mechanical design problems.</td>
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<td>Understand by verbal and visual means the design of drawings and models.</td>
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<td>Understand in writing to fellow coworkers and customer of any comments and concerns</td>
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Special requirements of the course:

Additional information:

Prepared by: Callix Miller 10/20/17

Date: 10/20/17