CAD/BIM MODELER - BUILDING DESIGN AND FABRICATION - CERTIFICATE OF ACHIEVEMENT

TOP Code:

0953.10
The curriculum prepares students to apply Computer Aided Design (CAD) and Building Information Management (BIM) systems to model industry specific architectural and engineering projects for the built environment. CAD/BIM Modeler job functions include creating models of designs and structures, creating associative drawings to models, generating computerized visualizations of architectural models, interpretation of designs for the development of blueprints, presentation drawings, and collaboration on design projects. Additional skills include physical fabrication of models using 3D printing and laser cutting techniques.

Certificate of Achievement is awarded upon completion of all required courses with a grade of C or better.

Program Outcomes

- Demonstrate appropriate fluency of industry specific drawing standards and Computer Aided Design (CAD) Building Information Modeling (BIM) techniques in the development of architectural plans.
- Demonstrate appropriate mastery of industry specific drawing standards through the analysis of construction codes, program requirements, and building processes.
- Demonstrate an ability to effectively communicate through the use of Computer Aided Design (CAD) Building Information Modeling (BIM) software constructing two-dimensional and three-dimensional graphics for presentation techniques.
- Collaborate effectively in teams to produce comprehensive design technology solutions to architectural, engineering and construction systems and processes.

Requirements for the Certificate of Achievement

Code	Title	Units
DT 008A	INTRODUCTION TO DIGITAL DESIGN AND FABRICATION	3
DT 017	BUILDING DESIGN & CONSTRUCTION TECHNICAL GRAPHICS	3
DT 114	BUILDING INFORMATION MODELING DESIGN (BIM DESIGN)	3
DT 118	3-DIMENSIONAL BUILDING DESIGN & REPRESENTATION	3
Total Units		**12**

This Certificate of Achievement is not eligible as a major for an Associate Degree.