

BC 4803 – HS / BC 8803 – HS, Special Topics: BIM for Building Construction

Summer 201

Course title	BIM for Building Construction
Course number	BC TBD
Class schedule	Monday 6:05 pm – 9:25 pm, May 14 th through Aug 4 th .
Room	East Arch 309
Instructor(s)	Hugo Sheward
Office	Hinman Research building lab 234
Office hours	By appointment hshewardga3@gatech.edu
Course description	Building information modeling for building construction users

Course objectives

The Building Information Modeling (BIM) for Building construction class focuses in providing students with the tools necessary to efficiently operate in contemporary BIM environments for the purpose of building construction. The operation procedures included in this class will concentrate in the generation and/or customization of building objects and their attributes, BIM data mining, and data exports, all the previous for the domain of building construction and their interoperability with other professionals in the Architecture Engineering and Construction industry and traditional tools used in building construction. The class will deal with building data modeling in Autodesk Revit, Autodesk Navisworks, and integration with MS Project .

The proposed schedule for BC 4803 Pre-construction Workshop (BIM for Building Construction), consist of 11 three hour sessions, with the last session to be used for the final exam of the class.

The main contents treated by this class are:

- Building modeling using BIM applications (small and large scale Bldgs)
- Construction elements modeling and detailing
- BIM modeling for cost estimation
- BIM modeling for scheduling
- Customized data mining of BIM models
- Navisworks for project phasing
- Clash detection using Revit and Navisworks
- Interoperability using BIM (MS project)