							Desired Outcome
Introduction to Construction	Computing in Construction	Masonry Systems	Concrete Systems	MEP Systems	Soils Mechanics	Construction Project Operations	Construction Capstone
Design Process introduction	Data base skills	Drawing details cognitive knowledge	Lift drawing 3D skills	Interference modeling/coordination planning skills	Subsurface 3D modeling	Project execution planning with BIM	Using 4D/5D models to "sell" a project or an idea
Integrated Project Delivery Concepts	File sharing skills	Introduction to interfacing systems/components	Construction staging 3D skills	Advanced building interfacing, multiple systems	Advanced enigneering team building exercises	Project planning with document contro software	Integration/demonstration of IPD methodology
Programming exercises skills	Object oriented CAD skills	Team skills demonstration	Team skills demonstration	Presentation skills demonstration		Site operations planning 4D	Human conflict resolution skill demonstration
Team building exercises	Revit/Navisworks/Bentley/Others introduction						Ability to be part of an IPD team
Presentation skill	Integrated project Delivery						
History of the Master Builder cognitive knowledge							

Construction Methods 1	Construction Methods 2	Surveying/Bldg Layout	Intro to Structural Design	Structural Systems	Safety	Construction Administration
Intro to BIM ideas cognitive	Expansion of BIM ideas cognitive	GPS/GIS manipulation skills	Design data capture	3D/4D modeling using available	Using 3/4D Models for safe	Project delivery models (DG, CMAR,
Basic level building terminology	Secondary level building terminology	Total station skills	Intro to design information and parameter selections	Design-build integration skill demonstration	Small work plans skill demonstration	Construction communication process maps
	2D plans cognitive knowledge	Spacial relationship cognitive knowldege	Building code integration cognitive knowledge	Building code integration skill demonstration		Construction law in practice
		Design data capture		Advanced engineering presentation skill demonstration		Interference resolution (RFI process)
				IPD concept demonstration of skills		Human resource cognitive knowledge
						Integrated Proect Delivery reinforcement

Communication classes by o	others Graphics/Documents	Estimating	Scheduling
Public speaking	Real models skills demonstration	IPD concepts reinforced	IPD concepts reinforced
Team performance skills	Computer models 3D Object Oriented CAD	5D modeling manipulation skills	4D modeling manipulation skills
resentation skills	Layering manipulation skills demonstration	Systems pricing cognitive knowledge	Project planning/staging an execution
echnical writing for construction		Pre and post contract change process	Advanced construction tea building exercises
		Advanced construction team building exercises	