



M. E. Rinker, Sr.

School of Building Construction

Autodesk

NavisWorks® 2009

Experience the whole project, before it's real.

Revit

Architecture 2009

The M.E. Rinker, Sr. School of Building Construction will be hosting hands-on **BIM** classes the University of Florida campus. In two intensive days, participants will learn Revit Architecture, Structure, and MEP in addition to clash detection, 4D modeling, and more in Navisworks. The class is best suited for architects, engineers, and constructors.

Participant Fee: \$995

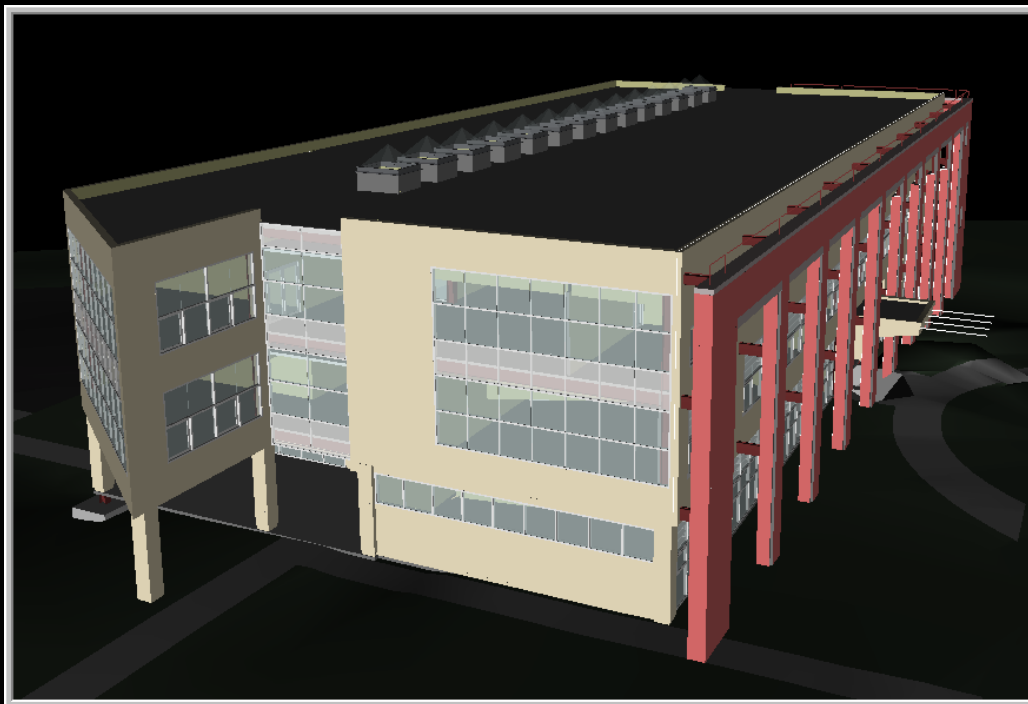
Seats are Limited due to small class size
Continental Breakfast and Lunch Served.

December 10-11, 2009

For more details please contact:

Dr. Issa at raymond-issa@ufl.edu or

call Dottie at (352) 273-1181



Building Information Modeling

Rinker School Building Information Modeling Course

December 10-11, 2009

Instructors:



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Rinker Professor
Director of Graduate and Distance Education Programs
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Assistant Professor
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CONTRIBUTORS:



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PhD Candidate
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Overall Schedule for both days

7:30 am	Continental Breakfast Served
8:00 am	Begin Classes
10:00 am	Coffee/Refreshment Break
10:30 am	Resume Classes
12:30 pm	Catered Lunch/Free Time
1:30 pm	Resume Classes
3:00 pm	Refreshment Break
3:30 pm	Resume Classes
5:00 pm	Structured Classes Over/Free Time

Note: In order to learn all course material, and out of respect to other attendees, please handle all personal business during scheduled break times. Thank you for your consideration.

December 10, 2009

Day One Agenda

Autodesk® Revit® Architecture 2009 for Design & Construction Management

Schedule:

Introductions

PowerPoint Overview of Building Information Modeling, the National BIM Standard, and BIM applications in industry (Case Studies, BIMStorm-London, others)

User Interface

Concepts: Value of a Database for Building Design / Construction

Project Browser

Viewing the Model (Navigation)

Predefined Views

View Dependent Controls

Visibility Control of Objects

Creating New Views

Compose Sheets for Output

Autodesk® Revit® Structure 2009

- Project Browser
- Viewing the Model (Navigation)
- Predefined Views
- View Dependent Controls
- Visibility Control of Objects
- Creating New Views
- Compose Sheets for Output
- Columns, Walls, Beams, and Slabs

Concepts: Quantity Takeoffs, Estimation

Creating Custom Schedules

- Quantity
- Material Takeoff
- Use of formulas

Cost Estimation Workflow

Concepts: Quantity Takeoffs, Estimation

Revit to Excel or ODBC database

Construction Visualization

Concepts: Phasing

Phasing Intro

Establishing Project Phases

Assigning Elements to Phases

Creating Phase specific views of the project

Site Work

Opening Objects

Site Tools (model site)

Placing Site Objects

Rendering Building

Conclusion, Summary of Learned Items

December 11, 2009

Day Two Agenda

Autodesk® Revit® MEP 2009 for Design & Construction Management

Schedule:

Excerpts from Revit MEP Curriculum

Autodesk® Revit® MEP 2009

- Project Browser
- Viewing the Model (Navigation)
- Predefined Views
- View Dependent Controls
- Visibility Control of Objects
- Creating New Views
- Compose Sheets for Output

Mechanical/Electrical/Plumbing Design

- Zones
- Performing Energy Analysis
- Air Terminals
- Duct Sizing
- Placing Electrical Lighting Equipment / Creating Power Circuits
- Creating Wire Runs
- Mechanical / Electrical System Coordination
- Editing Circuits / Panel Schedules
- Placing Plumbing Fixtures
- Fixture Schedules

Autodesk® NavisWorks Manage® 2009.1

Model Aggregation and more

Concepts: Interferences, 4-D Phasing, and Construction Visualization

- Clash Detective
 - Hard, Clearance, and Duplicates
- Redline Tools
- Presenter
 - Backgrounds/Foregrounds
 - Material Application
 - Rendering
- Timeliner
 - Synchronizing Pre-made schedules with models

Conclusion – Quick Summary of Course Content

NOTE: While attendees will get exposure to BIM and hands on instruction on the use of the various features of the software used in class, full proficiency will be only achievable over time, through practice and continuous use.



**Rinker School Building Information Modeling Course
December 10-11, 2009
REGISTRATION FORM**

Deadline: December 4, 2009

Name: _____

Organization: _____

Billing Address: _____

Email Address: _____

Telephone: _____

Amount: _____ X \$995 = _____

Method of Payment

Check _____ Please make payable to: **University of Florida**

and mail to: Dottie Beaupied
University of Florida
M.E. Rinker, Sr. School of Building Construction
304 Rinker Hall/ POB 115703
Gainesville, FL 32611-5703

Visa ____ **Master Card** ____ **American Express** ____

Card No. _____

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If you need further info, please call Dottie at 352-273-1181

CANCELLATION POLICY –The University may cancel or postpone any activity or course because of insufficient enrollment or other unforeseen circumstances. If an activity or course is cancelled or postponed, the University will refund the registration fees but cannot be held responsible for any other related costs, charges, or expenses.